

SMITHSONIAN
CONTRIBUTIONS TO KNOWLEDGE.

VOL. XXXI.



EVERY MAN IS A VALUABLE MEMBER OF SOCIETY WHO, BY HIS OBSERVATIONS, RESEARCHES, AND EXPERIMENTS, FLOURISHES
KNOWLEDGE FOR MEN.—SMITHSON.

5593

CITY OF WASHINGTON:
PUBLISHED BY THE SMITHSONIAN INSTITUTION.
1895.

ADVERTISEMENT.

THIS volume forms the thirty-first of a series, composed of original memoirs on different branches of knowledge, published at the expense and under the direction of the Smithsonian Institution. The publication of this series forms part of a general plan adopted for carrying into effect the benevolent intentions of JAMES SMITHSON, Esq., of England. This gentleman left his property in trust to the United States of America to found at Washington an institution which should bear his own name and have for its objects the "*increase and diffusion* of knowledge among men." This trust was accepted by the Government of the United States, and acts of Congress were passed August 10, 1846, and March 12, 1891, constituting the President, the Vice-President, the Chief Justice of the United States Supreme Court, and the heads of Executive Departments an establishment under the name of the "SMITHSONIAN INSTITUTION, FOR THE INCREASE AND DIFFUSION OF KNOWLEDGE AMONG MEN." The members of this establishment are to hold stated and special meetings for the supervision of the affairs of the Institution and for the advice and instruction of a Board of Regents to whom the financial and other affairs are intrusted.

The Board of Regents consists of two members *ex officio* of the establishment, namely, the Vice-President of the United States and the Chief Justice of the Supreme Court, together with twelve other members, three of whom are appointed from the Senate from its own body, three from the House of Representatives from its members, and six persons appointed by a joint resolution of both Houses. To this Board is given the power of electing a Secretary and other officers for conducting the active operations of the Institution.

To carry into effect the purposes of the testator, the plan of organization should evidently embrace two objects: one, the increase of knowledge by the addition of new truths to the existing stock; the other, the diffusion of knowledge, thus increased, among men. No restriction is made in favor of any kind of knowledge, and hence each branch is entitled to and should receive a share of attention.

The act of Congress establishing the Institution directs, as a part of the plan of organization, the formation of a library, a museum, and a gallery of art, together with provisions for physical research and popular lectures, while it leaves to the Regents the power of adopting such other parts of an organization as they may deem best suited to promote the objects of the bequest.

After much deliberation, the Regents resolved to apportion the annual income specifically among the different objects and operations of the Institution in such manner as may, in the judgment of the Regents, be necessary and proper for each, according to its intrinsic importance, and a compliance in good faith with the law.

The following are the details of the parts of the general plan of organization provisionally adopted at the meeting of the Regents December 8, 1847:

DETAILS OF THE FIRST PART OF THE PLAN.

I. TO INCREASE KNOWLEDGE.—*It is proposed to stimulate research by offering rewards for original memoirs on all subjects of investigation.*

1. The memoirs thus obtained to be published in a series of volumes, in a quarto form, and entitled "Smithsonian Contributions to Knowledge."

2. No memoir on subjects of physical science to be accepted for publication which does not furnish a positive addition to human knowledge, resting on original research; and all unverified speculations to be rejected.

3. Each memoir presented to the Institution to be submitted for examination to a commission of persons of reputation for learning in the branch to which the memoir pertains, and to be accepted for publication only in case the report of this commission is favorable.

4. The commission to be chosen by the officers of the Institution, and the name of the author, as far as practicable, concealed, unless a favorable decision be made.

5. The volumes of the memoirs to be exchanged for the transactions of literary and scientific societies, and copies to be given to all the colleges and principal libraries in this country. One part of the remaining copies may be offered for sale, and the other carefully preserved to form complete sets of the work to supply the demand from new institutions.

6. An abstract, or popular account, of the contents of these memoirs to be given to the public through the annual report of the Regents to Congress.

II. TO INCREASE KNOWLEDGE.—*It is also proposed to appropriate a portion of the income annually to special objects of research, under the direction of suitable persons.*

1. The objects and the amount appropriated to be recommended by counselors of the Institution.

2. Appropriations in different years to different objects, so that in course of time each branch of knowledge may receive a share.

3. The results obtained from these appropriations to be published, with the memoirs before mentioned, in the volumes of the Smithsonian Contributions to Knowledge.

4. Examples of objects for which appropriations may be made:

(1) System of extended meteorological observations for solving the problem of American storms.

(2) Explorations in descriptive natural history, and geological, mathematical, and topographical surveys, to collect material for the formation of a physical atlas of the United States.

(3) Solution of experimental problems, such as a new determination of the weight of the earth, of the velocity of electricity, and of light; chemical analyses of soils and plants; collection and publication of scientific facts, accumulated in the offices of Government.

(4) Institution of statistical inquiries with reference to physical, moral, and political subjects.

(5) Historical researches and accurate surveys of places celebrated in American history.

(6) Ethnological researches, particularly with reference to the different races of men in North America; also explorations and accurate surveys of the mounds and other remains of the ancient people of our country.

I. TO DIFFUSE KNOWLEDGE.—*It is proposed to publish a series of reports, giving an account of the new discoveries in science, and of the changes made from year to year in all branches of knowledge not strictly professional.*

1. Some of these reports may be published annually, others at longer intervals, as the income of the Institution or the changes in the branches of knowledge may indicate.

2. The reports are to be prepared by collaborators eminent in the different branches of knowledge.

3. Each collaborator to be furnished with the journals and publications, domestic and foreign, necessary to the compilation of his report; to be paid a certain sum for his labors, and to be named on the title-page of the report.

4. The reports to be published in separate parts, so that persons interested in a particular branch can procure the parts relating to it without purchasing the whole.

5. These reports may be presented to Congress for partial distribution, the remaining copies to be given to literary and scientific institutions and sold to individuals for a moderate price.

The following are some of the subjects which may be embraced in the reports:

I. PHYSICAL CLASS.

1. Physics, including astronomy, natural philosophy, chemistry, and meteorology.
2. Natural history, including botany, zoology, geology, etc.
3. Agriculture.
4. Application of science to arts.

II. MORAL AND POLITICAL CLASS.

5. Ethnology, including particular history, comparative philology, antiquities, etc.
6. Statistics and political economy.
7. Mental and moral philosophy.
8. A survey of the political events of the world; penal reform, etc.

III. LITERATURE AND THE FINE ARTS.

9. Modern literature.
10. The fine arts, and their application to the useful arts.
11. Bibliography.
12. Obituary notices of distinguished individuals.

II. TO DIFFUSE KNOWLEDGE.—*It is proposed to publish occasionally separate treatises on subjects of general interest.*

1. These treatises may occasionally consist of valuable memoirs translated from foreign languages, or of articles prepared under the direction of the Institution, or procured by offering premiums for the best exposition of a given subject.

2. The treatises to be submitted to a commission of competent judges previous to their publication.

DETAILS OF THE SECOND PART OF THE PLAN OF ORGANIZATION.

This part contemplates the formation of a library, a museum, and a gallery of art.

1. To carry out the plan before described a library will be required consisting, first, of a complete collection of the transactions and proceedings of all the learned societies of the world; second, of the more important current periodical publications and other works necessary in preparing the periodical reports.

2. The Institution should make special collections particularly of objects to illustrate and verify its own publications; also a collection of instruments of research in all branches of experimental science.

3. With reference to the collection of books other than those mentioned above, catalogues of all the different libraries in the United States should be procured, in order that the valuable books first purchased may be such as are not to be found elsewhere in the United States.

4. Also catalogues of memoirs and of books in foreign libraries and other materials should be collected, for rendering the Institution a center of bibliographical knowledge, whence the student may be directed to any work which he may require.

5. It is believed that the collections in natural history will increase by donation as rapidly as the income of the Institution can make provision for their reception, and therefore it will seldom be necessary to purchase any article of this kind.

6. Attempts should be made to procure for the gallery of art casts of the most celebrated articles of ancient and modern sculpture.

7. The arts may be encouraged by providing a room, free of expense, for the exhibition of the objects of the Art Union and other similar societies.

8. A small appropriation should annually be made for models of antiquities, such as those of the remains of ancient temples, etc.

9. The Secretary and his assistants, during the session of Congress, will be required to illustrate new discoveries in science and to exhibit new objects of art. Distinguished individuals should also be invited to give lectures on subjects of general interest.

In accordance with the rules adopted in the programme of organization, the memoir in this volume has been favorably reported on by a commission appointed for its examination. It is, however, impossible, in most cases, to verify the statements of an author, and therefore neither the commission nor the Institution can be responsible for more than the general character of a memoir.

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SMITHSONIAN CONTRIBUTIONS TO KNOWLEDGE.

982

OCEANIC ICHTHYOLOGY,

A TREATISE ON THE

DEEP-SEA AND PELAGIC FISHES OF THE WORLD,

BASED CHIEFLY UPON

THE COLLECTIONS MADE BY THE STEAMERS BLAKE, ALBATROSS,
AND FISH HAWK IN THE NORTHWESTERN ATLANTIC,

WITH

AN ATLAS CONTAINING 417 FIGURES.

BY

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Assistant Secretary Smithsonian Institution, in charge of U. S. National Museum,

AND

TARLETON H. BEAN, M. D.,

Director of the New York Aquarium.



CITY OF WASHINGTON:

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1895.

COMMISSION TO WHOM THIS MEMOIR HAS BEEN REFERRED.

THEODORE GILL.

DAVID STARR JORDAN.

EDWARD D. COPE.

ADVERTISEMENT.

The following memoir, by Doctors G. Brown Goode and Tarleton H. Bean, having been published at the joint expense of the Smithsonian fund and of the printing appropriation of the United States National Museum, two separate editions are issued, one forming a portion of the series of Smithsonian Contributions to Knowledge, and the other appearing as a special bulletin of the United States National Museum.

In accordance with the rule adopted by the Smithsonian Institution, the work has been submitted for examination to a commission consisting of Doctors Theodore Gill, David S. Jordan, and Edward D. Cope, and having been recommended for publication by these gentlemen, it is herewith presented as a work of original research, illustrating more particularly the deep-sea and pelagic fishes of the world.

S. P. LANGLEY,
Secretary.

SMITHSONIAN INSTITUTION,
Washington, July, 1895.

TABLE OF CONTENTS.

Names of genera and species.	Plate and figure.	Page.
INTRODUCTION		III
TABLE OF CONTENTS		IX
LIST OF THE NEW GENERA AND SPECIES WITH ETYMOLOGIES		XXXI
LIST OF PLATES		I*
MARSIPOBRANCHII.		
HYPEROTRETA:		
Myxinidæ—		
Myxine, L.—		
<i>M. glutinosa</i> , L.	I, 1	2
<i>australis</i> , Jenyns	I, 2	3
HYPEROARTIA:		
Petromyzontidæ—		
Petromyzon, Artedi—		
<i>P. marinus</i> , L.		4
Bathymyzon, Gill—		
<i>B. Bairdii</i> , Gill.		4
ELASMOBRANCHII.		
TECTOSPONDYLI:		
Scymnorhinidæ—		
Scymnorhinus, Cuv.—		
<i>S. lichia</i> , Bonn.		7
Somniosus, Le S.—		
<i>S. microcephalus</i> , (Schn.)	III, 8	7
<i>rostratus</i> , (Risso)		8
Echinorhinus, Bl.—		
<i>E. spinosus</i> , Gm.	III, 9	8
Etmopteridæ—		
Etmopterus, Raf.—		
<i>E. spinax</i> , L.	V, 18	10
<i>pusillus</i> , (Lowe)	II, 5	10
<i>granulosus</i> , Gthr.		10
Paracentroscyllium, Ale.—		
<i>P. ornatum</i> , Ale.		507
Centroscyllium, M. & H.—		
<i>C. Fabricii</i> , (Rhdt.)	II, 7	11
<i>granulatum</i> , Gthr.		11
Scymnodon, B. & C.—		
<i>S. ringens</i> , B. & C.	IV, 12	11
Centrophorus, M. & H.—		
<i>C. uyatus</i> , (Raf.)	III, 11	12
<i>Iusitanicus</i> , B. & C.		12
<i>crepidater</i> , B. & C.		13
<i>squamosus</i> , Gmel.		13
<i>Dumerilii</i> , (Johnson)		13
<i>calceus</i> , Lowe.		14
<i>squamulosus</i> , Gthr.		508
<i>foliaceus</i> , Gthr.		508
Centroscyllium, B. & C.—		
<i>C. eadolepis</i> , B. & C.	IV, 13	14, 508
<i>obscurus</i> , V.		15
Oxynotus, Raf.—		
<i>O. centrina</i> , (L.)	VI, 21	15
ASTEROSPONDYLI:		
Scylliorhinidæ—		
Scylliorhinus, Bl.—		
<i>S. retifer</i> , Garman.	IV, 14, 15	16, 508
<i>profundorum</i> , G. & B.	V, 16	17
<i>hispidus</i> , Ale.		508
<i>canescens</i> , Gthr.		508
Galeidæ—		
Mustelus—		
<i>M. hinnaulus</i> , Bl.		
Pseudotriacis, Capello—		
<i>P. microdon</i> , Capello.	V, 17	18, 508
Pristiurus, Bon.—		
<i>P. melastomus</i> , (Raf.)	III, 10	20, 508
<i>atlanticus</i> , V.	VI, 20	21

Names of genera and species.	Plate and figure.	Page.
ASTEROPONDYLI—Continued.		
Alopiidae—		
Alopias—		
<i>A. vulpes</i> , L.		
Carchariidae—		
Carcharias—		
<i>C. glaucus</i> , L.		
Cetorhinidae—		
Cetorhinus, Bl.—		
<i>C. maximus</i> , Gunner	V, 19	21
OPISTHAKTHRI:		
Chlamydoselachidae—		
Chlamydoselachus, Garman—		
<i>C. anguineus</i> , Garman	VI, 22	22, 508
RAIIÆ:		
Raiidae—		
<i>Raia</i> , L.—		
<i>R. radiata</i> , Don.	IX, 27	25
Aekleyi, Garman	VII, 23	25
Aekleyi, ornata, Garman		26
plintonia, Garman	VIII, 26	27
circularis, Couch	VIII, 25	27, 508
erinacea, Mitchill		28
hyperborea, Collett	IX, 28	28, 509
levis, Mitchill	IX, 29	28
granulata, Gill	IX, 30	29
batis, L.		29, 509
fullonica, L.		29, 509
vomere, Fries		29, 509
nidrosiensis, Collett		29, 590
mamillidens, Ale		508
isotrachys, Gthr		508
lutea, Fries		508
flossada, Risso		
senta		508
aleutica		508
trachura		509
abyssicola		509
Trygonidae—		
Urolophus karannus		509
Goodei		509
HOLOCEPHALI:		
Chimaeridae—		
Chimæra, L.—		
<i>C. monstrosa</i> , L.	X, 31	31, 509
affinis, Capello	X, 32-35	31, 509
Callorhynchus, (Gronov.)—		
<i>C. antarecticus</i> , (Lac.)	X, 36	32
Hydrolagus, Gill—		
<i>H. Collieri</i> , (Bennett)		32
Harriotta, G. & B.—		
<i>H. Raleighana</i> , G. & B	XI, 37-40	33
MALACOPTERYGII:		
Alepocephalidae—		
Alepocephalus, Risso—		
<i>A. rostratus</i> , Risso	XII, 41	36
Agassizii, G. & B.	XIII, 45	37
productus, Gill	XIII, 46	37
niger, Gthr	XIV, 52	38
Bairdii, G. & B.	XIII, 47	38, 510
Blanfordii, Ale		36, 509
bicolor, Ale		36, 509
edentulus, Ale		36, 510
tenebrosus		510
Conocara, G. & B.—		
<i>C. MacDonaldi</i> , G. & B.	XIII, 48	39
macroptera, (V.), G. & B	XII, 43	39
Bathytroctes, Gthr.—		
<i>B. macrolepis</i> , Gthr.	XII, 44	41
stomias, Gilb		510
rostratus, Gthr		41
microlepis, Gthr		42, 510
melanocephalus, V		43
attritus, V		45
squamosus, Ale		40, 510
Talismania, G. & B.—		
<i>T. homoptera</i> , (V.), G. & B		43
antillarum, G. & B.	XIV, 49	44
aquatoris, G. & B.	XIV, 50	44

Names of genera and species.	Plate and figure.	Page.
MALACOPTERYGII—Continued.		
Alepocephalidæ—Continued.		
<i>Narcetes</i> , Alc.—		
<i>N. eremilas</i> , Alc		45, 510
<i>Platyroctes</i> , Gthr.—		
<i>P. apus</i> , Gthr.	XV, 53	46
<i>Xenodermichthys</i> , Gthr.—		
<i>X. nodulosus</i> , Gthr	XVI, 57	46, 510
<i>Aleposomus</i> , Gill—		
<i>A. Copei</i> , Gill	XIV, 51	47
<i>socialis</i> , (V.), G. & B	XVI, 58	48
<i>Güntheri</i> , (Alc.), G. & B		48
<i>Leptoderma</i> , V.—		
<i>L. macrops</i> , V	XV, 56	49
<i>Anomalopterus</i> , V.—		
<i>A. pinguis</i> , V	XV, 54	49
<i>Aulastomatomorpha</i> , Alc.—		
<i>A. phosphorops</i> , Alc	XV, 55	50, 510
Pterothrissidæ (= <i>Bathyrhissidæ</i> , Gthr.)—		
<i>Pterothrissus</i> , Hilg.—		
<i>P. gissu</i> , Hilg		51
Argentinidæ—		
<i>Argentina</i> , Art.—		
<i>A. sphyrena</i> , L		51
<i>silus</i> , (Asc.), Nils	XVII, 61	52
<i>striata</i> , G. & B	XVII, 62	52
<i>elongata</i> , Hutton		52
<i>sialis</i> , Gilbert		510
<i>Leuroglossus</i> , Gilb.—		
<i>L. stilbius</i> , Gilb.		510
Microstomidæ—		
<i>Microstoma</i> , Cuv.—		
<i>M. rotundatum</i> , (Ris.), Gthr	XVI, 59	53
<i>grœnlandicum</i> , Rhdt (= <i>Nausenia grœnlandica</i> , J. & E.)		53, 510
Bathylagidæ—		
<i>Bathylagus</i> , Gthr.—		
<i>B. atlanticus</i> , Gthr		54
<i>eurypus</i> , G. & B	XVII, 63	55
<i>Benedicti</i> , G. & B	XVII, 64	55
<i>antarcticus</i> , Gthr		55
<i>pacificus</i> , Gilb		510
Synodontidæ—		
<i>Synodus</i> , (Gr.), Scop.—		
<i>S. saurus</i> , (L.)		57
<i>atlanticus</i> , Johns		57
<i>intermedius</i> , Spix		57
<i>kaianus</i> , Gthr		57
<i>Bathylaco</i> , G. & B.—		
<i>B. nigricans</i> , G. & B	XVIII, 69	57
<i>Bathysaurus</i> , Gthr.—		
<i>B. ferox</i> , Gthr. (= <i>B. Agassizii</i> , G. & B.)	XVIII, 65, 66	58, 510
<i>mollis</i> , Gthr.		59
<i>obtusirostris</i> (Vaillant)		510
<i>Harpodon</i> , Les.—		
<i>H. macrochir</i> , Gthr	XVI, 60	59
<i>squamosus</i> , Alc		59, 510
Aulopidæ—		
<i>Chlorophthalmus</i> , Bon.—		
<i>C. Agassizii</i> , Bon	XIX, 70	60
<i>chalybeus</i> , Goode	XIX, 71	60, 510
<i>productus</i> , Gthr		61
<i>nigripinnis</i> , Gthr		61
<i>truculentus</i> , G. & B	XIX, 72	61
<i>gracilis</i> , Gthr		511
<i>corniger</i> , Alc		511
Penthosauridæ—		
<i>Penthosaurus</i> , G. & B.—		
<i>B. grallator</i> , G. & B	XIX, 73	62
Bathypteroidæ—		
<i>Bathypterois</i> , Gthr.—		
<i>B. longifilis</i> , Gthr		64
<i>dubius</i> , V	XX, 74	64
<i>quadrifilis</i> , Gthr	XX, 75	65
<i>Güntheri</i> , Alc		64, 511
<i>insularum</i> , Alc		64, 511
<i>longipes</i> , Gthr	XX, 76	66, 511
<i>longicauda</i> , Gthr		64
Ipnopidæ—		
<i>Ipnops</i> , Gthr.—		
<i>I. Murrayi</i> , Gthr	XVIII, 67, 68	67

Names of genera and species.	Plate and figure.	Page.
MALACOPTERYGII—Continued.		
Rondelettiidae—		
Rondeletia, G. & B.—		
<i>R. bicolor</i> , G. & B.	XXI, 77	68
Cetomimidae—		
Cetomimus, G. & B.—		
<i>C. Gillii</i> , G. & B.	XXI, 78	69
<i>Storeri</i> , G. & B.	XXI, 79	69
Myctophidae—		
Myctophum, Raf.—		
<i>M. punctatum</i> , Raf.	XXII, 80	71
<i>affine</i> , (Lütken), G. & B.		72
<i>opalinum</i> , G. & B.	XXII, 81	72, 511
<i>phengodes</i> , (Lütken), G. & B.		72
<i>Humboldtii</i> , (Risso)	XXII, 82	73
<i>gracile</i> , (Lütken), G. & B.		74
<i>Benoiti</i> , (Cocco), G. & B.	XXII, 83	74
<i>Reinhardtii</i> , (Lütken)		74
<i>remiger</i> , G. & B.	XXII, 84	75
<i>Hygonii</i> , (Lütken), G. & B.		75
<i>Veranyi</i> , (Moreau)		77
<i>Heideri</i> , (Stalling)		77
<i>pterotus</i> .		511
<i>californiense</i> .		511
<i>arcticum</i> .		511
<i>Townsendi</i> .		512
Benthosema, G. & B.—		
<i>B. Mülleri</i> , (Gmel.), G. & B.	XXII, 85	76
<i>arcticum</i> , (Lütken), G. & B.		78
<i>Colletti</i> , (Lütken), G. & B.		78
Lampanyctus, Bon.—		
<i>L. crocodilus</i> , (Risso), G. & B.	XXIII, 86	79
<i>alatus</i> , G. & B.	XXIV, 92	79
<i>Güntheri</i> , G. & B.	XXIV, 90	79
<i>Warmingii</i> , (Lütken), G. & B.		80, 512
<i>gemmifer</i> , G. & B.	XXIII, 88	80
<i>Gemellarii</i> , (Cocco), G. & B.	XXIII, 87	80
<i>cæruleus</i> , (Klun.), G. & B.		81
<i>lacerta</i> , G. & B.	XXIV, 89	81
Ceratoscopelus, Gthr.—		
<i>C. maderensis</i> , (Lowe)	XXIV, 91	82
Notoscopelus, Gthr.—		
<i>N. resplendens</i> , (Richardson)	XXV, 94	83
<i>quercinus</i> , G. & B.	XXVI, 97	83, 512
<i>margaritiferns</i> , G. & B.	XXVI, 98	84
<i>castaneus</i> , G. & B.	XXV, 95	84
<i>caudispinosus</i> , (Johnson)	XXV, 96	84
Lampadeua, G. & B.—		
<i>L. speculigera</i> , G. & B.	XXVI, 99	85
<i>pyrsobola</i> .		512
Æthoprora, G. & B.—		
<i>A. metopoclampa</i> , (Cocco), G. & B.	XXVII, 101	86
<i>Incida</i> , G. & B.	XXVII, 102	87
<i>effulgens</i> , G. & B.	XXVII, 103	87
Collettia, G. & B.—		
<i>C. Rafinesquei</i> , (Cocco), G. & B.	XXVI, 100	88
<i>nocturna</i> , (Poey), J. & E.		512
Diaplus, Eigenmann—		
<i>D. theta</i> , Eigenmann	XXIV, 93	89
<i>engraulis</i> , (Gthr.), Eigenmann		512
<i>cæruleus</i> , Klunzinger		512
Tarletonbeania, Eigenmann—		
<i>T. tenua</i> (Eigenmann)	XXVIII, 105	89
<i>crenulare</i> .		512
Rhinoscopelus, Lütken—		
<i>R. Coccoi</i> , (Cocco), G. & B.	XXVIII, 104	90
<i>Andree</i> , (Lütken), G. & B.		90
<i>rarus</i> , (Lütken), G. & B.		91, 512
<i>antarcticus</i> .		512
Electrona, G. & B.—		
<i>E. Rissoi</i> , (Cocco), G. & B.	XXVIII, 107	91
Dasy Scopelus, Gthr.—		
<i>D. asper</i> , (Richardson)	XXVIII, 106	92
<i>spinosus</i> , (Steindachner)		92
<i>subasper</i> , (Gthr.)		92
Neoscopelus, Johns.—		
<i>N. macrolepidotus</i> , Johns.	XXIX, 108, 109	93, 512

TABLE OF CONTENTS.

VII

Names of genera and species.	Plate and figure.	Page.
MALACOPTERYGII—Continued.		
Myetophidae—Continued.		
<i>Scopelengys</i> , Alc.—		93, 512
<i>S. tristis</i> , Alc.		
<i>Nannobranchium</i> , Gthr.—		
<i>N. MacDonaldi</i> , G. & B.	XXXIX, 110	94
<i>Scopelosaurus nigrum</i> , Gthr.		94
<i>leucopsarum</i>		512
Manrolieidae—		
<i>Ichthyococcus</i> , Bon. (= <i>Coccia</i> , Gthr.)—		
<i>I. ovatus</i> , (Coc.), Bon.	XXX, 113	95
<i>Opisthoproctus</i> , V.		95
<i>O. soleatus</i>		513
<i>Manrolieus</i> , Cocco—		
<i>M. borealis</i> , (Nils.), Gthr.	XXX, 111	96
<i>amethystinopunctatus</i> , Cocco		96
<i>Poweriae</i> , Cocco		96
<i>Pennanti</i>		96
<i>australis</i> , Hector		96
<i>Vinciguerria</i> , J. & E.		513
<i>V. attenuata</i> , (Cocco), J. & E.		513
<i>Valencienellus</i> , J. & E.		513
<i>V. tripunctulatus</i>		513
Chanliodontidae—		
<i>Chanliodus</i> , Schn.—		
<i>C. Sloani</i> , Schn.	XXXI, 115	96
<i>Macouni</i> , Bean.		513
Gonostomidae—		
<i>Gonostoma</i> —		
<i>G. denudatum</i> , Raf.	XXXI, 116	98
<i>brevideus</i> , K. & S.	XXXI, 117	98
<i>Cyclothone</i> , G. & B.		
<i>C. microdon</i> , (Gthr.), G. & B. (= <i>C. lusca</i> , G. & B.)	XXX, 111	99, 514
<i>bathypbila</i> , (V.), G. & B.	XXXI, 118	100
<i>quadrioculatum</i> , V. (?)		100
<i>elongata</i> (Gthr.), G. & B. (= <i>Sigmops stigmaticus</i> , Gill) ...	XXXII, 119	101
<i>gracilis</i> , Gthr.		101
<i>Bonapartia</i> , G. & B.—		
<i>B. pedaliota</i> , G. & B.	XXXII, 120	102
<i>Yarrella</i> , G. & B.—		
<i>Y. Blackfordi</i> , G. & B.	XXXII, 121	103
<i>Diplophos</i> , Gthr.—		
<i>D. taenia</i> , Gthr.	XXXIV, 126	104
<i>pacificus</i> , Gthr.		104
<i>Photichthys</i> , Hutton—		
<i>P. argenteus</i> , Hutton.	XXXII, 122	101
<i>Manducus</i> , G. & B.—		
<i>M. maderensis</i> , (Johus.), G. & B.		514
Astronesthidae—		
<i>Astronesthes</i> , Rich.—		
<i>A. niger</i> , Rich.	XXXIII, 123	105, 515
<i>gemmifer</i> , G. & B.	XXXIII, 124	105
<i>Richardsoni</i> , Poey	XXXIII, 125	106
Stomiidae—		
<i>Stomias</i> , Cuv.—		
<i>S. ferox</i> , Rhdt.	XXXIV, 127	107
<i>boa</i> , (Risso), Cuv.	XXXIV, 128	108
<i>affinis</i> , Gthr.	XXXIV, 129	108
<i>nebulosus</i> , Alc.		108, 515
<i>elongatus</i> , Alc.		108
<i>Echiostoma</i> , Lowe—		
<i>E. barbatum</i> , Lowe.	XXXV, 130	109
<i>margarita</i> , G. & B.	XXXV, 131	109
<i>Opostomias</i> , Gthr.—		
<i>O. micripnus</i> , Gthr.	XXXV, 132	110
<i>Grammatostomias</i> , G. & B.—		
<i>G. dentatus</i> , G. & B.	XXXV, 133	110
<i>Pachystomias</i> , Gthr.—		
<i>P. microdon</i> , Gthr.	XXXVI, 134	111
<i>Bathophilus</i> , Gigl.—		
<i>B. nigerrimus</i> , Gigl.	XXXVI, 136	111
<i>Eustomias</i> , V.—		
<i>E. obscurus</i> , V.	XXXVI, 135	111
<i>Photoneutes</i> , Gthr. (= <i>Lucifer</i> , Döderlein)—		
<i>P. albipinnis</i> , Döderlein.		112
<i>gracilis</i> , G. & B.	XXXVI, 137	112

Names of genera and species.	Plate and figure.	Page.
MALACOPTERYGII—Continued.		
Malacosteida:—		
Malacosteus, Ayres:—		
<i>M. niger</i> , Ayres.....	XXXVII, 138	114
<i>choristodaetylus</i> , V.....	XXXVII, 139	114
<i>indicus</i> , Gthr.....		114
Photostomias, Collett:—		
<i>P. Guernei</i> , Collett.....	XXXVII, 140	115
Thaumatostomias, Ale:—		
<i>T. atrox</i> , Ale.....	XXXVII, 141	115
Alepisauridae:—		
Alepisaurus, Lowe:—		
<i>A. ferox</i> , Lowe.....	XXXVIII, 142	117
<i>æsculapinus</i> , Bean.....		117
<i>Caulopus</i> , Gill.....		117
<i>altivelis</i> , Poey.....		118
<i>Poeyi</i> , Gill.....		118
<i>borealis</i> , Gill.....		515
<i>serra</i> , Gill.....		515
Paralepididae:—		
Paralepis, Risso:—		
<i>P. coregonoides</i> , Risso.....		119, 516
<i>sphyrænoides</i> , Risso.....		119, 516
<i>intermedius</i> , Poey.....		120, 516
<i>hyalinus</i> , Raf.....		515
<i>Rissoi</i> , Bk.....		
<i>Cuvieri</i> , Bon.....		118, 516
<i>speciosus</i> , Bellotti.....		118, 516
<i>Arclozenus</i> :—		
<i>A. borealis</i> , (Rhdt.), J. & G.....	XXXVIII, 143	119, 516
<i>cornuscaus</i>		516
<i>Sudis</i> , Raf:—		
<i>intermedius</i>		120
<i>S. hyalina</i> , Raf.....	XXXVIII, 144	121
<i>ringens</i>		121
Odontostomidae:—		
Odontostomus, Cocco:—		
<i>O. hyalinus</i> , Cocco.....	XXXVIII, 145	121
<i>atratus</i> , Ale.....		516
<i>Omosudis</i> , Gthr:—		
<i>O. Loweii</i> , Gthr.....	XL, 150	122
Sternoptychidae:—		
<i>Sternoptyx</i> , Herm:—		
<i>S. diaphana</i> , Lowe.....	XXXIX, 146	124
<i>Argyropelecus</i> , Cocco:—		
<i>A. hemigymnus</i> , Cocco.....	XXXIX, 147	126
<i>Alcocki</i> , G. & B.....		126
<i>Offersii</i> , (Unv.), C. & V.....	XXXIX, 148	126
<i>D'Urvillii</i> , C. & V.....		127
<i>aculeatus</i> , Val.....		127
<i>Sternoptychides</i> , Ogilby:—		
<i>S. amabilis</i> , Ogilby.....		128
<i>Polyipnus</i> , Gthr:—		
<i>P. spinosus</i> , Gthr.....	XXXIX, 149	128, 516
Idiacanthidae:—		
<i>Idiacanthus</i> , Peters (= <i>Bathyopsis</i> , Gthr.):—		
<i>I. fasciola</i> , Gthr.....		128
<i>antrostomus</i> , Gilb.....		516
<i>ferox</i> , Gthr.....	XL, 151	129
LYOPOMI:		
Halosauridae:—		
Halosaurus:—		
<i>H. Oweni</i> , Johns.....	XL, 152	130
<i>Johnsonianus</i> , V.....	XL, 153	131
<i>Güntheri</i> , G. & B.....		131
<i>parvipinnis</i> , Ale.....		516
<i>Aldrovandia</i> , G. & B:—		
<i>A. rostrata</i> , (Gthr.).....	XLI, 154	132
<i>affinis</i> , (Gthr.).....		516
<i>macrochira</i> , (Gthr.).....	XLI, 155	133
<i>Goodei</i> , Gill.....		133
<i>phalaenus</i> , Y.....	XLI, 156	134
<i>mediorostris</i> , Gthr.....		517
<i>gracilis</i> , G. & B.....	XLI, 157	134
<i>pallida</i> , G. & B.....	XLI, 158	135
<i>Hoskynii</i> , Ale.....		516
<i>anguilliformis</i> , Ale.....		516
<i>Halosaurichthys</i> , Ale:—		
<i>H. carinicauda</i> , Ale.....		136, 517

Names of genera and species.	Plate and figure.	Page.
APODES:		
Leptocephalidæ—		
Leptocephalus—		
<i>L. vulgaris</i> (L.)		517
Uroconger, Kaup—		
<i>U. vicinus</i> , V.	XLII, 160	138, 517
Conger muræna, Kaup—		
<i>C. guttulata</i> , Gthr.		138
<i>longicauda</i> , Alc.		138, 517
<i>flava</i> , G. & B.	XLII, 159	138
<i>musteliceps</i>		517
<i>squaliceps</i> , Alc.		517
<i>nasica</i> , Alc.		517
<i>prorigera</i> , Gilb.		138
Coloconger, Alc.—		
<i>C. raniceps</i> , Alc.		139, 517
Promyllantor, Alc.—		
<i>P. purpureus</i> , Alc.		139, 517
Simenchelyidæ—		
Simenchelys, Gill—		
<i>S. parasiticus</i> , Gill.	XLIII, 161	139
Ilyophidæ—		
Ilyophis, Gilb.—		
<i>I. brunneus</i> , Gilb.	XLIII, 162	141
Synaphobranchidæ—		
Synaphobranchus, Johns.—		
<i>S. pinnatus</i> , (Gronov.), Gthr.	XLIV, 164	143, 517
<i>breviodorsalis</i> , Gthr.		144
<i>affinis</i> , Gthr.		144
Histiobranchus, Gill—		
<i>H. infernalis</i> , Gill.	XLIV, 165	145, 517
<i>bathybius</i> , Gthr.		145
Murænesocidæ—		
Xenomystax, Gilb.—		
<i>X. atrarius</i> , Gilb.		146
<i>truncidens</i>		517
Hoplunnis, Kaup—		
<i>H. diomedianus</i> , G. & B.	XLIII, 163	146
Sauromurænesox, Alc.—		
<i>S. vorax</i> , Alc.		146, 517
Ophichthyidæ, Gill—		
Pisoodonophis, Kaup—		
<i>P. cruentifer</i> , G. & B.	XLIV, 166	147
Myrus, Kaup—		
<i>M. pachyrhynchus</i> , (V.)	XLV, 167	148
Nettastomidæ—		
Nettastoma, Raf.—		
<i>N. melanurum</i> , Raf.		149, 517
<i>brevirostris</i> , Fac.		149
<i>parviceps</i> , Gthr.		148
<i>taniola</i> , Wood-Mason		512
Venefica, J. & D.—		
<i>V. procera</i> , (G. & B.), J. & D.	XLV, 168	149
<i>proboscidea</i> , (V.), J. & D.		150
Chlopsis, Raf.—		
<i>C. bicolor</i> , Raf.		150
<i>equatorialis</i> , Gilb.		150
Nemichthyidæ, Gill—		
Nemichthys, Rich.—		
<i>N. scolopaceus</i> , Rich.	XLVI, 170	152
<i>avocetta</i>		153
Labichthys, Gill and Ryder—		
<i>L. carinatus</i> , Gill and Ryder.	XLVI, 171	153
<i>elongatus</i> , Gill and Ryder.	XLVI, 172	153
<i>Gillii</i> , Bean.		153
<i>infans</i> , (Gthr.), G. and B.	XLVII, 173	153
Cyema, Gthr.—		
<i>C. atrum</i> , Gthr.	XLVIII, 176	154
Spinivomer, Gill and Ryder—		
<i>S. Goodei</i> , Gill and Ryder.		155
Serrivomer, Gill and Ryder—		
<i>S. Beani</i> , Gill and Ryder.	XLVII, 175	155
<i>Richardii</i> , (V.), G. & B.		155
Gavialiceps, Wood-Mason—		
<i>G. microps</i> , Alc.		156, 517
Investigator, G. & B.—		
<i>I. acanthonotus</i> (Alc.)		518

Names of genera and species.	Plate and figure.	Page.
LYOMERI:		
Saccopharyngidæ—		
Saccopharynx, Mitchill—		
<i>S. flagellum</i> , Mitchill	XLVIII, 178-180	157
Eurypharyngidæ—		
Eurypharynx, V.—		
<i>E. pelecánoides</i> , V.	XLVIII, 177	159, 518
Gastrostomus, Gill and Ryder—		
<i>G. bairdii</i> , Gill and Ryder	XLIX, 181, 182	159
Dysomma, Ale.—		
<i>D. bucephalus</i> , Ale.		160, 518
Dysommopsis, Ale.—		
<i>D. muciparus</i> , Ale.		160
CARENCHILI:		
Derichthyidæ—		
Derichthys, Gill—		
<i>D. serpentinus</i> , Gill.	XLV, 169	161
HETEROMI:		
Notacanthidæ—		
Notacanthus—		
<i>N. nasus</i> , Bloch.	L, 183	164
<i>analís</i> , Gill.	L, 184; LII, 191	165
<i>Bonapartii</i> , Risso.	L, 185	166
<i>sexspinus</i> , Rich.	LII, 192	167
<i>phasganorus</i> , Goode.	L, 186	167
Gigliolia, G. & B.—		
<i>G. Moseleyi</i> , G. & B.	LI, 187; LII, 193	169
Polyacanthonotus, Blk.—		
<i>P. Rissoanus</i> , (F. & V.), Gthr.		170
Macdonaldia, G. & B.—		
<i>M. rostrata</i> , (Coll.), G. & B.	LI, 189; LII, 195	171
<i>Challengeri</i> , (V.), G. & B.		172
Lipogenyidæ—		
Lipogenys, G. & B.—		
<i>L. Gillii</i> , G. & B.	LI, 190; LII, 196	173
TELEOCEPHALI:		
Berycidæ—		
Beryx, Cuv.—		
<i>B. decadaetylus</i> , C. & V.		175, 518
<i>splendens</i> , Lowe.	LIII, 197	176, 518
<i>lineatus</i> , Gthr.		175
<i>affinis</i> , Gthr.		175
<i>delphin</i> , C. & V.		175
Melamphaes, Gthr.—		
<i>M. typhlops</i> , (Lowe), Gthr.	LIII, 198	177
Plectromus, Gill—		
<i>P. suborbitalis</i> , Gill.	LIV, 201	179
<i>Beauii</i> , (Gthr.)	LIV, 202	179
<i>robustus</i> , (Gthr.)		180
<i>crassiceps</i> , (Gthr.)	LIII, 200	180
<i>megalops</i> , (Lütken)		181
<i>mizolepis</i> , (Gthr.)		178
<i>microps</i> , (Gthr.)		518
<i>cristiceps</i> , (Gilb.)		518
<i>lugubris</i> , (Gilb.)		518
Scopelogadus, V.—		
<i>S. coeles</i> , V.	LIII, 199	182
Malacosarcus, Gthr.—		
<i>M. macrostoma</i> , Gthr.		182
Poromitra, G. & B.—		
<i>P. capito</i> , G. & B.	LIII, 200	183
Anoplogaster, Gthr.—		
<i>A. cornutus</i> , (C. & V.), Gthr.	LIV, 203	184
Canolepis, Gill—		
<i>C. longidens</i> , Gill.	LV, 204	185
Stephanoberycidae—		
Stephanoberyx, Gill—		
<i>S. Mona</i> , Gill.	LV, 205	186
<i>Gillii</i> , G. & B.	LV1, 206	187
Trachichthyidæ—		
Trachichthys, Shaw—		
<i>T. Darwinii</i> , Johns.	LVI, 207	188
<i>intermedius</i> , Hector.		518
<i>australis</i> , Shaw.		518
<i>Jacksoniensis</i> , (Castelnau), Macleay.		518
<i>fernandezianus</i> , Gthr.		518
<i>Traillii</i> , Hutton.		518
<i>elongatus</i>		

TABLE OF CONTENTS.

XI

Names of genera and species.	Plate and figure.	Page.
TELEOCEPHALI—Continued.		
Trachichthyidae—Continued.		
Hoplostethus, C. & V.—	LVl, 208	189, 519
H. mediterraneus, C. & V.		189
atlanticus, Coll.		519
japonicus, Hilg.		
Bathyclupeidae—		
Bathyclupea, Alc.—		190
B. Hoskynii, Alc.	CXXIII, 415	190
argentea, G. & B.		
Anomalopidae—		
Anomalops, Kner—		191
A. palpebratus, (Bodd.), Gthr.		
Scombridae—		
Thyrssites, C. & V.—		194
T. atun, (Euphrasen), C. & V.		
Thyrssitops, Gill—		194
T. lepidopoides, C. & V.	LVII, 209	195, 519
violaceus, Bean = Escolar violaceus J. & E.		
Ruvettus, Cocco—	LVII, 210	196
R. pretiosus, Cocco.		197
Nesiarchus, Johns.—		
N. nasutus, Johns.		198
Epinnula, Poey—	LVII, 211	
E. magistralis, Poey.		199
Nealotus, Johns.—		
N. tripes, Johns.		200
Promethichthys, Gill—		519
P. promethus (C. & V.) = P. atlanticus, Lowe.		519
promethoides, Blecher.		
beryalensis.		200
Dierotus, Gthr.—		201
D. armatus, Gthr.	LVII, 212	
parvipinnis, G. & B.		202
Gempylus, C. & V.—		202
G. serpens, C. & V.		
coluber, C. & V.		
Lepidopidae—		
Lepidopus, Gouan—	LVIII, 213	203
L. caudatus, (Euphrasen), White.		203
Gouani, Bl.		519
lusitanicus, Shaw.		519
xantusi G. & B.		
Evoxymetopon, (Poey), Gill—	LVIII, 214	204
E. taniatus, Poey.		204
Poeyi, Gthr.		
Benthodesmus, G. & B.—	LVIII, 215	205
B. atlanticus, G. & B.		206
elongatus, Clarke.		
Aphanopus, Lowe—	LIX, 216	207
A. carbo, Lowe.		207
minor, Collett.		
Trichinuridae—		
Trichinurus, L.—	LIX, 217	208, 519
T. lepturus, Liun.		
Coryphænidæ—		
Coryphæna, L.—		209
C. hippurus.		209
equisetis.		
Bramidae—		
Brama, Schn.—		210
B. Raii.		211
chilensis.		211
australis.		211
squamosa.		211
oreini.		211
Dussumieri.		211
Agassizii, Poey.		211
Brevoorti, Poey.		211
Saussurii, Lunel.		211
longipinnis, Lowe.		211
princeps, Johns.		211
Raschi, Esmark.		211
japonica, Hilg.		
Steinegeria, Jordan and Evermann—		519
S. rubescens, Jordan and Evermann.		
Pterycombus—		
P. brama.		

Names of genera and species.	Plate and figure.	Page.
TELEOSTOMALI—Continued.		
Diretmidae—		
Diretmus, Johns.—		
<i>D. argenteus</i> , Johns., (= <i>Gyrinomena nummularis</i> , Vaillant)...	LXV, 234	211, 519
<i>aureus</i> , Campbell.....		212
Pteraclidae—		
Pteraclis, Gronov.—		
<i>P. papilio</i> , Lowe.....		212
<i>ocellatus</i> , C. & V.....		212
<i>carolinus</i> , C. & V.....		212
<i>velifer</i> , (Pallas).....		212
Centrolophus, Lac.—		
<i>C. pompilus</i> , (Lac.), C. & V.....		213
<i>britannicus</i> , Gthr.....		213
Schedophilus, Cocco—		
<i>S. medusophagus</i> , Cocco.....	LXI, 223	214
<i>maculatus</i>		214
<i>Botteri</i> , Stdehr.....		
Icostens, Lockington—		
<i>I. enigmaticus</i> , Lockington.....	LXII, 224	216
Schedophilopsis, Stdehr.—		
<i>S. spinosus</i> , Stdehr.....	CXXIII, 416	216
Icichthys, J. & G.—		
<i>I. Lockingtonii</i> , J. & G.....	LXII, 226	215
Acrotidae—		
Acrotus, Bean—		
<i>A. Willoughbyi</i> , Bean.....	LXII, 225	217
Grammicolepididae—		
Grammicolepis, Poey—		
<i>G. brachiusculus</i> , Poey.....	LXI, 221	219
Nomeidae—		
Nomeus, Cuv.—		
<i>N. Gronovii</i> , (Gmel.), Gthr.....	LXIII, 227	220, 520
Bathyseriola, Alc.—		
<i>B. cyanea</i> , Alc.....		220, 521
Psenes, C. & V.—		
<i>P. pellucidus</i> , Lütken.....	LXIII, 228	221
<i>maculatus</i> , Lütken.....	LXIII, 229	221
Luvaridae—		
Luvarus, Raf.—		
<i>L. imperialis</i> , Raf.....	LXIV, 230	222, 521
Lamprididae—		
Lampris, Retzius—		
<i>L. regius</i> , (Bonn.), Retzius.....		223
Zeidae—		
Zenopsis, Gill—		
<i>Z. ocellatus</i> , (Storer), Gill.....		224
<i>couchifer</i> , Lowe.....		225
Cyttus, Gthr.—		
<i>C. australis</i> , (Rich.).....		225
<i>abbreviatus</i> , Hector.....		225
<i>hololepis</i> , G. & B.....	LXV, 233	225
<i>novæ-zelandiæ</i>		
Cyttopsis, Gill—		
<i>C. rosens</i> , (Lowe), Gill.....		227
Oreosoma, C. & V.—		
<i>O. atlanticum</i> , C. & V.....		228
Caproidae—		
Capros, Lac.—		
<i>C. aper</i> , (L.), Lac.....		229, 521
Caprominus—		
<i>C. abbreviatus</i>		
Antigonia, Lowe—		
<i>A. capros</i> , Lowe.....	LXV, 235	229
Tetragonuridae—		
Tetragonurus, Risso—		
<i>T. Cuvieri</i> , Risso.....	CXXIII, 417	230
Chilodipteridae—		
Melanostoma, Döderlein—		
<i>M. japonicum</i> , Döderlein.....		521
Glossamia, Gill—		
<i>G. aprion</i> , Gthr.....		231
<i>pandionis</i> , G. & B.....	LXIV, 231	231
Malacichthys, Döderlein—		
<i>M. griseus</i> , Gthr.....		232
Epigonus, Raf.—		
<i>E. telescopus</i> , (Risso), G. & B.....		232, 521
<i>occidentalis</i> , G. & B.....	LXVI, 236	233

Names of genera and species.	Plate and figure.	Page.
TELEOCEPHALI—Continued.		
Chilodipteridae—Continued.		
Pomatomichthys, Gigl.—		234
P. Constanciae, Gigl.		
Microichthys, Rüpp.—		234
M. Coccoi, Rüpp.		
Brephostoma, Alc.—		234
B. Carpenteri, Alc.		
Acropomidae—		
Acropoma, T. & S.—		235, 524
A. philippinense, Gthr.		
Scombropidae—		
Scombrops, T. & S.—		235
S. chilodipteroides, T. & S.		
oculatus, Poey.		235
Hypoclydonia, G. & B.—		236
H. bella, G. & B.	LXVI, 237	
Serranidae—		
Centropristis, C. & V.—		237
C. pleurospilus, (Gthr.)		237, 521
investigatoris, (Alc.)		521
annularis, Gthr.		521
Prionodes æquidens, Gilb.		521
Anthias, Schn.—		238
A. megalops, Gthr.		238, 521
eos, Gilb.		238
aquilonaris, G. & B.		
Bathyanthias, Gthr.—		522
B. roseus, Gthr.		
Synagrops, Gthr.—		522
S. japonicus, (Döderlein), Gthr.		
Polyprion, Cuv.—		238, 522
P. americanum, (Schn.), Jordau.	LXVI, 238	
Pristipomatidae—		
Propoma, Gthr.—		522
P. roseum, Gthr.		
Lutjanidae—		
Aprion, C. & V.—		239
A. macrophthalmus, (Müller), J. & S.	LXXXIX, 314	
Verilus, Poey.—		240
V. sordidus Poey.	LXIV, 232	
Dentex, Cuv.—		240
D. macrophthalmus, (Bloch), C. & V.		
Priacanthidae—		
Priacanthus, C. & V.—		241, 522
P. catalufa, Poey.		
Pseudopriacanthus, Blk.—		242
P. altus, Gill.	LXVI, 239, 240	
Polymixiidae—		
Polymixia, Lowe—		243, 522
P. nobilis, Lowe.	LXVII, 241	
Pomacentridae—		
Chromis, Cuv.—		244
C. roseus, (Gthr.), G. & B.		
Scorpenidae—		
Scorpena, L.—		245, 522
S. scrofa obesa, Lowe.		246
crustulata, G. & B.	LXVII, 242	
ustulata, Lowe.		246
Agassizii, G. & B.	LXVII, 243	
pereoides, Solander.		247
ocellata, Lowe.		522
Rathyschastes, S. & D.—		522
B. albescens, Gthr.		248
Helicolenus, G. & B.—		249, 523
H. dactylopterus, (Del.), G. & B.	LXVIII, 244	
maderensis, G. and B.		250
Pontinus, Poey.—		252
P. castor, Poey.		252
pollux, Poey.		252
Kuhlii, (Bowdich), G. & B.		253, 523
Bibroni, (Savage), G. & B.		253
filifer, (Val.), G. & B.		254
canariensis, (Savage), G. & B.		255
Rathbuni, G. & B.	LXVIII, 245	
macrolepis, G. & B.	LXIX, 247	
longispinis, G. & B.	LXVIII, 246	
sierra, (Gill.), G. & B.		257
hexanema, (Gthr.), G. & B.		258

Names of genera and species.	Plate and figure.	Page.
TELEOCEPHALI—Continued.		
Scorpenidae—Continued.		
Sebastes, Cuv.—		
<i>S. marinus</i> , (L.), White.....	LXIX, 218	260
<i>marinus viviparus</i> , (Kröyer).....		261
Sebastolobus, Gill—		
<i>S. macrochir</i> , (Gthr.), Gill.....		262, 523
<i>alascanus</i> , Bean.....		262
Sebastodes, Gill—		
<i>S. paucispinis</i> , (Ayres), J. & G.....		262
Sebastichthys, Gill—		
<i>S. Goodei</i> , Eigenmann.....		523
<i>alutus</i> , Gilb.....		523
<i>rupestris</i> , Gilb.....		523
<i>zacentrus</i> , Gilb.....		523
<i>saxicola</i> , Gilb.....		524
<i>diploproa</i> , Gilb.....		524
<i>aurora</i> , Gilb.....		524
<i>introniger</i> , Gilb.....		524
<i>sinensis</i> , Gilb.....		524
<i>oculatus</i> , (C. & V.).....		523
Setarches, Johns.—		
<i>S. Güntheri</i> , Johns.....		263
<i>fidgiensis</i> , Gthr.....		263
<i>parmatas</i> , Goode.....	LXX, 249	264
Lioscorpius, Gthr.—		
<i>L. longiceps</i> , Gthr.....		265
Mionus		
<i>M. inermis</i> , Ale.....		524
Cottidae—		
<i>Cottus</i> , L.—		
<i>C. bathybi</i> , Gthr.....		266, 524
<i>Icelus</i> , Kröyer—		
<i>I. bicornis</i> , (Rhdt.), J. & G.....		267
<i>scutiger</i> , Bean.....		524
<i>enryops</i> , Bean.....		524
<i>Artediellus</i> , Jordan—		
<i>A. uncinatus</i> , (Rhdt.), Jordan.....	LXXI, 255	267, 524
<i>Icelinus</i> , Jordan—		
<i>I. quadriseriatus</i> , Lockington.....		268
<i>filamentosus</i> , Gilb.....		524
<i>tennis</i> , Gilb.....		525
<i>fimbriatus</i> , Gilb.....		525
<i>oculatus</i> , Gilb.....		525
<i>Triglops</i> , Rhdt.—		
<i>T. Pingeln</i> , Rhdt.....	LXXI, 256	269, 525
<i>Prionistius</i> —		
<i>P. macellus</i> , Bean.....		525
<i>Cottinellus</i> , Collett—		
<i>C. microps</i> , Collett.....	LXXII, 257, 261	269, 525
<i>Thomsonii</i> , Gthr. (= <i>C. torvus</i> , Goode).....	LXXII, 258, 262	270, 525
<i>Psychrolutes</i> , Gthr.—		
<i>P. zebra</i> , Bean.....		525
<i>paradoxus</i> , Bean.....		525
<i>Malacocottus</i> , Bean—		
<i>M. zonurus</i> , Bean.....		272, 525
Cyclopteridae (Cyclopterus)—		
<i>Eumicrotremus</i> , Gill—		
<i>E. spinosus</i> , (Müller), Gill.....	LXX, 250	272
Liparididae—		
<i>Liparis</i> , L.—		
<i>L. lineatus</i> , (Lepechin), Kröyer.....		274
<i>Careproctus</i> , Kröyer—		
<i>C. gelatinosus</i> , (Pall.), Kr.....		275
<i>spectrum</i> , Bean.....		275
<i>ranula</i> , G. & B.....	LXX, 251	275
<i>major</i> , (Fab.), Garm.....		277
<i>micropus</i> , (Gthr.), Garm.....		277
<i>Amitra</i> , Goode—		
<i>A. liparina</i> , Goode.....	LXX, 252	278
<i>Paraliparis</i> , Coll.—		
<i>P. bathybi</i> , Coll.....		279
<i>Copei</i> , G. & B.....	LXXI, 253	279
<i>rosaceus</i> , Gilb.....		525
<i>Hilgendorfia</i> , G. & B.—		
<i>H. membranacea</i> , (Gthr.), G. & B.....		280
<i>Gymnolycodes</i> , V.—		
<i>G. Edwardsi</i> , V.....	254	281

Names of genera and species.	Plate and figure.	Page.
TELEOCEPHALI—Continued.		
Agonidae—		
Podotheus, Gill—		282
P. decagonus, (Schn.), Jordan	LXXII, 259	
Bathyagonus, Gilb.—		283, 525
B. nigripinnis, Gilb.		
Xenochirus, Gilb.—		283, 525
X. triacanthus, Gilb.		283, 525
pentacanthus, Gilb.		525
latifrons, Gilb.		
Aspidophoroides, Lac.—		
A. monopterygius, (Bloch)	LXXII, 260	283
Olriki		284
Latilidae—		
Lopholatilus, G. & B.—		
L. chamaeleonticeps, G. & B.	LXXV, 265	284
Percophidae—		
Aphritis, C. & V.—		289
A. gobio, Gthr.		
Acanthaphritis, Gthr.—		289
A. grandisquamis, Gthr.		
Nototheniidae—		
Notothenia—		525
N. mizops, Gthr.		525
longipes, Studebaur.		
Chaenichthyidae—		
Bathyraco, Gthr.—		289
B. antarcticus, Gthr.		
Hypsicometes, Goode—		
H. gobioides, Goode	LXXIV, 263	290, 526
Bathyr. reis, Alc. (= Bembrops) platyrhynchus, Alc.		526
Champsodon, Gthr.—		291, 526
C. vorax, Gthr.		
Chiasmodontidae—		
Chiasmodon, Johns.—		
C. niger, Johns.	LXXIV, 264	292, 526
Ponerodon, Alc.—		293
P. vastator, Alc.		
Pseudoscopelus, Lütken—		
P. scriptus, Lütken.	LXXVI, 266	292, 526
Uranoscopidae—		
Uranoscopus, L.—		294
U. crassiceps, Alc.		526
kaianus, Gthr.		
Batrachidae—		
Porichthys, Girard—		
P. porosissimus, (C. & V.), Gthr.	LXXVI, 267	294
Gobiidae—		
Gobius, Cuv.—		295, 526
G. cometes, Alc.		295
Lesueurii, Risso		
Jeffreysii, Gthr.		
Callionymidae—		
Callionymus, L.—		296
C. lyra, L.		296
kaianus, Gthr.		296
calanropomus, Gthr.		296
earlbare, Alc.		296
phaeton, Gthr.		296
himantophorus, G. & B.	LXXVI, 268	296
maenulatus, Raf.		526
Stichæidae—		
Carelophus, Nils.—		298
C. Ascanii, (Walb.), Gthr.		
Anarrhichadidae—		
Anarrhichas, L.—		
A. lupus, L.	LXXVII, 269	299
minor, Olafsen.	LXXVII, 270	301
latifrons, S. & H.	LXXVII, 271	301
Ptilichthyidae—		
Ptilichthys, Bean—		
P. Goodei, Bean.	LXXXVII, 304	302
Zoarceidae—		
Lycodes, Rhdt.—		303
L. VahlII, Rhdt.		303
Esmarkii, Coll.	LXXXVIII, 272	303
reticulatus, Rhdt.	LXXXVIII, 273; LXXXI, 281	305
frigidus, Coll.	LXXXVIII, 274	305
mucosus, Rich.	LXXXVIII, 275; LXXXI, 283	306

Names of genera and species.	Plate and figure.	Page.
TELEOCEPHALI—Continued.		
Zeacridæ—Continued.		
Lycodes, Rhdt.—Continued.		
<i>L. pallidus</i> , Coll.		306
<i>perspicillum</i> , Kr.	LXXX, 278	307
<i>Lütkenii</i>		307
<i>seminudus</i> , Rhdt.		307
<i>Sarsii</i> , Coll.		307
<i>zoarchus</i> , G. & B.	LXXIX, 276; LXXXI, 283	308
<i>brevipes</i> , Bean.		526
<i>macrops</i> , Gthr.		526
<i>Lycenchelys</i> , Gill—		
<i>L. murana</i> , (Coll.), Gill.		309
<i>Verrillii</i> , (G. & B.), Jordan.	LXXXIX, 277	309
<i>paxillus</i> , (G. & B.), Jordan.	LXXX, 279, 282	311
<i>porifer</i> , Gilb.		527
<i>albus</i> , (V.), G. & B.		527
<i>Lycodon</i> , G. & B.—		
<i>L. mirabilis</i> , G. & B.	LXXX, 280	312
<i>Aprodon</i> , Gilb.—		
<i>A. Corteziana</i>		527
<i>Lycodopsis</i> , Coll.—		
<i>L. pacificus</i> , Coll.		528
<i>paxillus</i> , Gilb.		527
<i>Bothrocara</i> , Bean—		
<i>B. mollis</i> , Bean.		528
<i>Maynea</i> —		
<i>M. pusilla</i> , Bean.		526
<i>brunnea</i> , Bean.		526
<i>Gymnelis</i> , Rhdt.—		
<i>G. viridis</i> , (Fab.), Rhdt.		313
<i>Lycodapus</i> , Gilb.—		
<i>L. hierasfer</i> , Gilb.		528
<i>Melanostigma</i> , Gthr.—		
<i>M. gelatinosum</i> , Gthr.	LXXXII, 284	314
<i>Brotnlidæ</i> —		
<i>Bythites</i> , Rhdt.—		
<i>B. fuscus</i> , Rhdt.		316
<i>Grammonus</i> , Gill—		
<i>G. ater</i> , (Risso), G. & B.		317, 528
<i>Oligopus</i> —		
<i>O. ater</i>		528
<i>armatus</i> , Döderlein.		528
<i>Catetyx</i> , Gthr.—		
<i>C. Messieri</i> , Gthr.		318
<i>rubrirostris</i> , Gilb.		318, 528
<i>Saccogaster</i> , Alc.—		
<i>S. maculatus</i> , Alc.		318, 528
<i>Diplacanthopoma</i> , Gthr.—		
<i>D. brachysoma</i> , Gthr.		319, 528
<i>Alcocki</i> , G. & B.		528
<i>Dicromita</i> , G. & B.—		
<i>D. Agassizii</i> , G. & B.	LXXXII, 285	319
<i>metriostoma</i> , (V.), G. & B.		320
<i>microphthalmia</i> , (V.), G. & B.		320
<i>oncerocephala</i> , (V.), G. & B.		321
<i>Bassozetus</i> , Gill—		
<i>B. normalis</i> , Gill.	LXXXII, 287	322
<i>compressus</i> , (Gthr.), G. & B.		322
<i>tania</i> , (Gthr.), G. & B.		323, 529
<i>eatena</i> , G. & B.	LXXXII, 286	323
<i>glutinosus</i> , Alc.		322, 528
<i>Glyptophidium</i> , Alc.—		
<i>G. argenteum</i> , Alc.		324, 529
<i>macropus</i> , Alc.		529
<i>Dermatorus</i> , Alc.—		
<i>D. trichinurus</i> , Alc.		325, 529
<i>melanocephalus</i> , Alc.		325
<i>Neobythites</i> , G. & B. (= <i>Elenocraspedum</i> Alc.)—		
<i>N. Gillii</i> , G. & B.	LXXXIII, 289	325
<i>marginatus</i> , G. & B.	LXXXIII, 290	326
<i>macrops</i> , Gthr.		326, 529
<i>crassus</i> , (V.), G. & B.		327
<i>steatitens</i> , Alc.		529
<i>squamipinnis</i>		529
<i>Benthocometes</i> , G. & B.—		
<i>B. robustus</i> , G. & B.	LXXXII, 288	327
<i>murænolepis</i> , (V.), G. & B.		328

Names of genera and species.	Plate and figure.	Page.
TELEOCEPHALI—Continued.		
Brotulidae—Continued.		
Bassogigas, Gill—		
<i>B. Gillii</i> , G. & B.	LXXXIII, 291	328, 529
<i>grandis</i> , (Gthr.), G. & B.		329, 529
<i>pterotus</i> , (Alec.), G. & B.		328, 529
<i>stelliferoides</i> , (Gilb.), G. & B.		328, 529
Alcockia, G. & B.—		
<i>A. rostratus</i> , (Gthr.), G. & B.		329
Celema, G. & B.—		
<i>C. nuda</i> , (V.), G. & B.		330
<i>subarmata</i> , (V.), G. & B.		330
Mæbia, G. & B.—		
<i>M. gracilis</i> , (Gthr.), G. & B.		331
Barathrodemus, G. & B.—		
<i>B. manatinus</i> , G. & B.	LXXXIV, 294	332
Pycnoceraspedum, Alec.—		
<i>P. squamipinne</i> , Alec.		333, 529
Nematonus, Gthr.—		
<i>N. pectoralis</i> , (G. & B.), Gthr.	LXXXIV, 295	333
Porogadus, G. & B.—		
<i>P. miles</i> , G. & B.	LXXXIII, 292	334
Penopus, G. & B.—		
<i>P. Macdonaldi</i> , G. & B.	LXXXIV, 293	336
Acanthonus, Gthr.—		
<i>A. armatus</i> , Gthr.		336
Tauredophidium, Alec.—		
<i>T. Hextii</i> , Alec.	LXXXIV, 296	336
Pteroidonns, Gthr.—		
<i>P. quinquarius</i> , Gthr.		337
Dicrolene, G. & B. (=Paradicrolene, Alec.)—		
<i>D. intronigra</i> , G. & B.	LXXXV, 297	338
<i>multifilis</i> , Alec.		337, 529
<i>nigricaudis</i> , Alec.		338, 529
<i>Vaillantii</i> , Alec.		338, 529
Mixonus, Gthr.—		
<i>M. laticeps</i> , Gthr.	LXXXIV, 296	339
Sireubo, Blk.—		
<i>S. inermis</i> , (Schl.), Blk.		340
Monomitopus, Alec.—		
<i>M. nigripinnis</i> , Alec.		340, 529
Typhlonus, Gthr.—		
<i>T. nasus</i> , Gthr.		340
Barathronus, G. & B.—		
<i>B. bicolor</i> , G. & B.	LXXXV, 298	341
Aphyonus, Gthr.—		
<i>A. gelatinosus</i> , Gthr.		342
<i>mollis</i> , G. & B.	LXXXV, 299	342
Rhodichthys, Coll.—		
<i>R. regina</i> , Coll.	LXXXVI, 303	342
Alexeterion, V.—		
<i>A. Parfaiti</i> , V.	LXXXVI, 300	343
Bellottia, Gigl.—		
<i>B. apoda</i> , Gigl.		344
Hephthocara, Alec.—		
<i>H. sinum</i> , Alec.		344
Lamprogrammus, Alec.—		
<i>L. niger</i> , Alec.	LXXXVI, 302	344, 530
<i>fragilis</i> , Alec.		530
Ophidiidae—		
Ophidium—		
<i>O. murenolepis</i> , Gthr.		530
Otophidium, Gill—		
<i>O. omostigma</i> , (J. & G.), Jordan	LXXXVII, 305	345
Leptophidium, Gill—		
<i>L. cervinum</i> , G. & B.	LXXXVII, 306	346
<i>profundum</i> , Gill.	LXXXVII, 307	347
<i>marmoratum</i> , G. & B.	LXXXVII, 308	348
<i>pardale</i> , Gilb.		530
<i>microlepis</i> , Gilb.		530
<i>stigmatistum</i> , Gilb.		530
<i>emmelas</i> , Gilb.		530
Ateleopodidae—		
Ateleopus, Schl.—		
<i>A. japonicus</i> , Schl.		349
<i>indicus</i> , Alo.		349, 530

Names of genera and species.	Plate and figure.	Page.
TELEOSTEAL—Continued.		
Lophotidae—		
Lophotes, Giorna—		
L. Cepedianus, Giorna.....	CXV, 389	349
cristatus, Johns.....		350
Capellei, T. & S.....	CXV, 390	351
ANACANTHINI:		
Gadidae—		
Gadus, Art.—		
G. morrhua, L.....		354
Melanogrammus, Gill—		
M. aeglefinus, (L.), Gill.....		354, 530
Brachygadus—		
B. minutus, (L.), Gill.....		
Gadiculus, Guich.—		
G. argenteus, Guich.....		355, 530
Micromesistius, Gill—		
M. pontassou, (Risso), Gill.....		355, 530
Merlangus—		
M. vulgaris.....		530
Phycis, Schn.—		
P. mediterraneus, Delaroche.....		356
Earlii, G. & B.....		356
blennioides, (Br.), Schn.....		357, 530
regius, (Walb.), J. & B.....	LXXXVIII, 309	357
cirratus, G. & B.....	LXXXVIII, 310	358
chuss, (Walb.) Gill.....	LXXXVIII, 311	359
tennis, (Mitch.), DeKay.....	LXXXIX, 312	359
Chesteri, G. & B.....	LXXXIX, 313	360
Læmonema, Gthr.—		
L. Yarrellii, (Lowe), Gthr.....		362
robustum, Gthr.....		362
barbatula, G. & B.....	XC, 315	362
melanurum, G. & B.....	XC, 316	363
Molva, Nils.—		
M. vulgaris, Flem.....	XC, 317	364
byrkelange, Walb.....		365
elongata, (Otto), Gthr.....		365
Physiculus, Kaup—		
P. Dalwigkii, Kaup.....		366, 531
Kaupi, Poey.....	XCI, 318	366
peregrinus, Gthr.....		366
fulvus, Bean.....	XCI, 319	366
rastrelliger, Gilb.....		530
nematopus, Gilb.....		530
rosens, Ale.....		530
argyropastus, Ale.....		530
Uraleptus, Costa—		
U. Maraldi, (Risso), Costa.....	XCI, 320	367
near Maraldi.....		368
Lotella, Kaup—		
L. maxillaris, Bean.....	XCH, 321	368
Mora, Risso—		
M. mediterranea, Risso.....	XCH, 322	369, 531
Lepidion, Sw.—		
L. Rissoi, Sw.....	XCH, 323	370, 531
Güntheri, (Gigl.), G. & B.....		370
eques, (Gthr.), G. & B.....		371
ensiferus, (Gthr.), G. & B.....		371, 531
inosima, Gthr.....		531
Salilota—		
S. australis, Gthr.....		531
Antimora, Gthr.—		
A. viola, (G. & B.), Jordan.....	XCH, 324	372
rostrata, Gthr.....		375
microlepis, Bean.....		531
Halargyreus, Gthr.—		
H. brevipes, V.....	XCH, 325	375
Johnsonii, Gthr.....		376, 531
near Johnsonii.....		376
Fretuophorus, Gigl.—		
F. Kleinenbergi, Gigl.....		377
Hypsirhynchus, Fac.—		
H. hepaticus, Fac.....		380
Strinsia, Raf.—		
S. tinea, Raf.....	XCH, 326	380
Melanonus, Gthr.—		
M. gracilis, Gthr.....		380

Names of genera and species.	Plate and figure.	Page.
ANACANTHINI—Continued.		
Gadidae—Continued.		
Onos, Risso—		
<i>O. ensis</i> , (Rhdt.), Gill.....	XCIV, 327	381
<i>macrophthalmus</i> , Gthr.....		382
<i>biscayensis</i> , Coll.....		382
<i>Reinhardtii</i> , (Kr.), Coll.....		383, 531
<i>tricirratus</i> , (Bloch), G. & B.....		383
Rhinonemus, Gill—		
<i>R. cimbrius</i> , (L.), G. & B.....	XCIV, 328	384, 531
Brosmius, Cuv.—		
<i>B. brosme</i> , (Müll.), Gthr.....	XCIV, 329	385
Brosmiculus, V.—		
<i>B. imberbis</i> , V.....		385
Merlucciidae—		
Merlucius, Raf.—		
<i>M. bilinearis</i> , (Mitch.), Gill.....	XCV, 330	386
<i>smiridus</i> , (Raf.), G. & B.....		388
Bregmacerotidae—		
<i>Bregmaceros</i> , Thompson—		
<i>B. atlanticus</i> , G. & B.....	XCV, 331	388
<i>MacClellandii</i> , Thompson.....		389, 531
Macruridae—		
Macrurus, Bloch—		
<i>M. berglax</i> , Lac.....	XCVI, 334	391
<i>sclerorhynchus</i> , Val.....		391
<i>smiliophorus</i> , Vaill.....		392
<i>aqualis</i> , (Gthr.), G. & B.....		392
<i>serratus</i> , Lowe.....		392
<i>Bairdii</i> , G. & B.....	XCVI, 335	393
<i>holotrachys</i> , Gthr.....		396
<i>zaniaphorus</i> , V. (near <i>holotrachys</i> , V.).....		397
<i>rudis</i> , Gthr.....		399
<i>asper</i> , Gthr.....		399
<i>stelgidolepis</i> , Gilb.....		391
<i>carinatus</i> , Gthr.....		391
<i>investigatoris</i> , Alc.....		390, 531, 532
<i>semiquinqueatus</i> , Alc.....		390, 531, 532
<i>Hoskynii</i> , Alc.....		390, 531, 532
<i>Hextii</i> , Alc.....		390, 531, 532
<i>Wood-Masoni</i> , Alc.....		390, 531, 532
<i>Petersonii</i> , Alc.....		390, 531, 532
<i>hrevirostris</i> , Alc.....		390, 531, 532
<i>macrolophus</i> , Alc.....		390, 531, 532
<i>lophotes</i> , Alc.....		390, 532
<i>polylepis</i> , Alc.....		390
<i>nasutus</i> , Gthr.....		390
<i>serrulatus</i> , Gthr.....		531
<i>hispidus</i> , Alc.....		532
<i>pumihceps</i> , Alc.....		
<i>Cælorhynchus</i> , Giorna—		
<i>C. atlanticus</i> , (Lowe), G. & B.....		397, 533
<i>carminatus</i> , (Goode), G. & B.....	XCVI, 336	398
<i>occa</i> , G. & B.....	XCV, 332, 333, 337	400
<i>japonicus</i> , (V.), (near <i>occa</i>).....		400
<i>japonicus</i> , Schl.....		400, 533
<i>caribbaeus</i> , G. & B.....	XCVII, 338	401
<i>fasciatus</i> , (Gthr.), G. & B.....		402
<i>parallelus</i> , Gthr.....		532
<i>australis</i> , Gthr.....		532, 533
<i>quadricristatus</i> , Alc.....		532, 533
<i>flavellispinis</i> , Alc.....		533
<i>Coryphanoides</i> , Gunner—		
<i>C. rupestris</i> , Gunner.....		402
<i>sulcatus</i> , G. & B.....		403, 533
<i>carapinus</i> , G. & B.....	XCVII, 339	404
<i>altipinnis</i> , Gthr.....		402
<i>serratus</i> , Lowe.....		525
<i>Hymenocephalus</i> , Gigl.—		
<i>H. italicus</i> , Gigl.....		406
<i>Goodei</i> , (Gthr.), Bean.....	XCVII, 340	407
<i>cavernosus</i> , G. & B.....	XCVII, 341	408
<i>heterolepis</i> , Alc.....		533
<i>Lionurus</i> , Gthr.—		
<i>L. filicanda</i> , Gthr.....	XCVIII, 342	409
<i>Trachonurus</i> , Gthr.—		
<i>G. sulcatus</i> , G. & B.....	XCVIII, 343	410
<i>villosus</i> , Gthr.....		409

Names of genera and species.	Plate and figure.	Page.
ANACANTHINI—Continued.		
Macruridae—Continued.		
Cetonurus, Gthr.—		
<i>C. globiceps</i> , V.....	XCVIII, 344	411
<i>crassiceps</i> , Gthr.....		411
Chalinura, G. & B.—		
<i>C. simula</i> , G. & B.....	XCVIII, 345	412
<i>brevibarbis</i> , G. & B.....		413
<i>occidentalis</i> , G. & B.....		413
<i>leptolepis</i> , Gthr.....		414
<i>fernandezianus</i> , Gthr.....		412
<i>hiocephala</i> , Gthr.....		412
<i>Murrayi</i> , Gthr.....		412
<i>serrula</i> , Bean.....		412
<i>hispida</i> , Ale.....		412
<i>mediterranea</i> , Gigl.....	XCIX, 315	533
Optonurus, Gthr.—		
<i>O. denticulatus</i> , Gthr.....		414
Malacocephalus, Gthr.—		
<i>M. levis</i> , (Lowe), Gthr.....		415
<i>occidentalis</i> , G. & B.....		415
<i>sablavis</i> , (V.).....		535
Nematonurus, Gthr.—		
<i>N. armatus</i> , (Hector).....		416
<i>gigas</i> , (V.), G. & B.....		416
<i>afinis</i> , (Gthr.).....		416
Moseleya, G. & B.—		
<i>M. longifilis</i> , (Gthr.), G. & B.....	XCIX, 317	417
Abyssicola, G. & B.—		
<i>A. macrochir</i> , (Gthr.), G. & B.....	C, 348	417
Trachyrhynchus, Giorna—		
<i>T. scabrus</i> , (Raf.), G. & B.....	C, 349	417, 534
<i>Murrayi</i> , Gthr.....		418
<i>longirostris</i> , Gthr.....		417, 534
Macruronus, Gthr.—		
<i>M. novæ-zelandiæ</i> , (Hector), Gthr.....	CI, 350	418, 534
Steindachneria, G. & B.—		
<i>S. argentea</i> , G. & B.....	CI, 351	419
Bathygadus, Gthr.—		
<i>B. favosus</i> , G. & B.....	CI, 352	420
<i>arenatus</i> , G. & B.....		421
<i>longifilis</i> , G. & B.....		422
<i>near longifilis</i> , Ale.....		423
<i>dispar</i> , (V.), G. & B.....		423
<i>macrops</i> , G. & B.....		423
<i>melanobranchus</i> , V.....		424
<i>cottoides</i> , Gthr.....		420
<i>multifilis</i> , Gthr.....		420
<i>furvescens</i> , Ale.....		535
Lycoridae—		
Lyconus, Gthr.—		
<i>L. pinnatus</i> , Gthr.....		425
HETEROSOMATA:		
Pleuronectidae—		
Lepidopsetta—		
<i>L. maculata</i> , Gthr.....		535
Chascanopsetta, Ale.—		
<i>C. lugubris</i> , Ale.....		535
Pecilopsetta, Gthr.—		
<i>P. maculosa</i> , Ale.....		535
Limanda, Gottsche—		
<i>L. vulgaris</i> , Gottsche.....		427
<i>microstoma</i> , Gthr.....		427
<i>ferruginea</i> , (Storer), G. & B.....		427
<i>Beanii</i> , Goode.....	CII, 355	428
Glyptocephalus, Gottsche—		
<i>G. cynoglossus</i> , (L.), Gill.....	CII, 356	430
Hippoglossus, Cuv.—		
<i>H. vulgaris</i> , Flem.....	CV, 363	434
Platysomatichthys, Blkr.—		
<i>P. hippoglossoides</i> , (Walb.), G. & B.....	CV, 364	435
Paralichthys, Girard—		
<i>P. oblongus</i> , (Mitch.), J.....		436
<i>Hectoris</i> , Gthr.....		436
<i>hoops</i> , Hector.....		436
<i>ocellatus</i> , Gthr.....		436
Notosoma, G. & B.—		
<i>N. dilecta</i> , G. & B.....	CIV, 362; CVI, 365	437

Names of genera and species.	Plate and figure.	Page.
HETEROSOMATA—Continued.		
Pleuronectidae—Continued.		
Hippoglossoides , Gottsche—		
<i>H. platessoides</i> , (Fab.), Gill	CVII, 367	438
Lepidorhombus , Gthr.—		
<i>L. megastoma</i> , (Don.), Gthr		439
<i>Boschi</i> , (Risso)		439, 535
Sciaenectes , Ale.—		
<i>S. lophoptera</i> , Ale		440
<i>macrophthalma</i> , Ale	CVIII, 371	440
Trichopsetta , Gill—		
<i>T. ventralis</i> , (G. & B.), Gill	CIX, 372	440
Arnoglossus —		
<i>A. Grohmanni</i> , Bon		536
Platophrys , Sw.—		
<i>P. nebularis</i> , J. & G		441
<i>cornutus</i> , Gthr.		442
Citharichthys , Blkr.—		
<i>C. arctifrons</i> , Goode	CVI, 366	442
<i>unicornis</i> , Goode	CVIII, 369	444
<i>microstomus</i> , Gill		446
<i>spilopterus</i> , Gthr	CVIII, 370	447
<i>dinoceros</i> , G. & B		447
<i>patulus</i> , (G. & B.), J. & G	CIX, 373	448
Etropus , J. & G.—		
<i>E. rimosus</i> , G. & B	CIV, 360, 361	450
Cyclopsetta , Gill—		
<i>C. fimbriata</i> , G. & B	CVII, 368	451
Monolene , Goode—		
<i>M. sessilicanda</i> , Goode	CIH, 357	452
<i>atrimana</i> , G. & B	CHL, 358	455
Soleidae—		
Solea , Cuv.—		
<i>S. vulgaris</i> , Quensel		457
<i>Greeni</i> , Gthr		536
<i>umbralites</i> , Ale		536
Microchirus , Bon.—		
<i>M. variegatus</i> , (Don.), M		457
<i>profundicolus</i> , (V.), G. & B		457
Aphoristia , Kaup—		
<i>A. nebulosa</i> , G. & B	CX, 375	458
<i>septemstriata</i> , Ale		536
<i>marginata</i> , G. & B	CX, 376	459
<i>pigra</i> , G. & B	CX, 377	460
<i>diomedea</i> , G. & B	CX, 378	460
<i>pusilla</i> , G. & B	CX, 379	461
<i>trifasciata</i>		537
Ammopleuropis , Gthr.—		
<i>A. lacteus</i> (Bon.), Gthr		462
Arelia , Kaup—		
<i>A. Carpenteri</i> , (Ale.)		462
CRANIOMI:		
Triglidae, Risso—		
Trigla , Art.—		
<i>T. euculus</i> , L		463
<i>gurnardus</i> , L		537
<i>lyra</i> , L		463
<i>leptacantha</i> , Gthr		463
<i>spiloptera</i> , Gthr		463
<i>hemisticta</i> , Schl		463
<i>milvus</i> , Bp		463
<i>corax</i> , Bp		463
<i>cavillone</i>		537
Lepidotrigla , Gthr.—		
<i>L. cavillone</i> , (Lac.)		463
Prionotus , Lac.—		
<i>P. militaris</i> , G. & B	CXI, 380; CXII, 384	361
<i>egretta</i> , G. & B	CXI, 381	465
<i>Stearnsii</i> , J. & S		466
<i>alatus</i> , G. & B	CXI, 382	467
<i>palmipes</i> , (Mitch.), Storer		468
<i>Beauui</i> , Goode (wrongly named in plate <i>P. trimaculatus</i>)	CXII, 383	468
Peristediidae—		
Peristedion , Lac.—		
<i>P. miniatum</i> , Goode	CXIII, 385	470
<i>longispatha</i> , G. & B	CXIV, 386	472
<i>imberbe</i> , Poey		472

Names of genera and species.	Plate and figure.	Page.
CRANIOMI—Continued.		
Peristediidae—Continued.		
Peristedion, Lac.—Continued.		
<i>P. gracile</i> , G. & B.	CXIV, 387	473
<i>platycephalum</i> , G. & B.	CXIV, 388	474
<i>truncatum</i> , Gthr.		475
<i>moluccense</i> , Blkr.		470
<i>Murrayi</i> , Gthr.		470, 537
<i>liorhynchum</i> , Gthr.		470
<i>cataphractum</i> , (L.)		537
<i>Rivers-Andersoni</i> , Alc.		537
TAENIOSOMI:		
Trachypteridae—		
Trachypterus, Gouan—		
<i>T. iris</i> , (Walb.), C. & V.	CXV, 391	477
<i>gryphurus</i> , Lowe.		478
<i>arcticus</i> , (Br.), Nils.	CXVI, 392	479
<i>Rüppellii</i> , Gthr.		479
<i>liopterus</i> , C. & V.		479
<i>cristatus</i> , Bonelli.		479
<i>repandus</i> , (Met.), Costa.		480
<i>Spinola</i> , C. & V.		480
<i>altivelis</i> , Kner.		480
<i>altivelis</i> , Hutton.		480
<i>arawata</i> , Clarke.		480
Regalecidae—		
Regalecus, Brun.—		
<i>R. glesne</i> , Asc.	CXVII, 395	480
<i>pacificus</i> , Haase.		480
<i>argenteus</i> , Hutton.		480
Stylephoridae—		
Stylephorus, Shaw—		
<i>S. chordatus</i> , Shaw.	CXVI, 393, 394	482
HEMIBRANCHII:		
Macrorhamphosidae—		
Macrorhamphosus, Lac.—		
<i>M. scolopax</i> , (L.)	CXVII, 396	483
Aulostomidae—		
Aulostoma, Lac.—		
<i>A. coloratum</i> , M. & T.		481
<i>chinense</i> , L.		481
<i>longipes</i> , V.	CXVII, 397	484
PEDICULATI:		
Lophiidae—		
Lophius, Art.—		
<i>L. piscatorius</i> , L.	CXVIII, 400	485
<i>Indegassa</i> , Sp.		485
<i>Naresii</i> , Gthr.		485
Lophiomus, Gill—		
<i>L. setigerus</i> , (Wahl), Gill.		485
Lophiodes, G. & B.—		
<i>L. mutilus</i> , (Alec.)		537
<i>Ingubris</i> , (Alec.)		537
Antennariidae—		
Pterophryne, Gill—		
<i>P. histrio</i> , (L.), Gill.		486
Antennarius, Cuv.—		
<i>A. pleurophthalmus</i> , Gill.		487
Chaunax, Lowe—		
<i>C. pictus</i> , Lowe.	CXVII, 398	487
Ceratiidae—		
Ceratias, Kr.—		
<i>C. Holbüllii</i> , Kr.	CXVII, 399	489
Diceratias, Gthr.—		
<i>D. hispidus</i> , Gthr.		489
Mancalias, Gill—		
<i>M. uranoscopus</i> , (Murray), Gill.		490
<i>Shufeldtii</i> , Gill.	CXIX, 401	490
Cryptopsaras, Gill—		
<i>C. Conesii</i> , Gill.	CXIX, 402	491
<i>carunculatus</i> , Gthr.		491
Oneirodes, Lütken—		
<i>O. Eschrichtii</i> , Lütken.		492
Paroneirodes, Alec.—		
<i>P. glomeratus</i> , Alec.	CXIX, 401	493
Himantolophus, Rhdt.—		
<i>H. groenlandicus</i> , Rhdt. (fig. misnamed <i>C. Reinhardtii</i>).	CXX, 405	493

TABLE OF CONTENTS.

XXIII

Names of genera and species.	Plate and figure.	Page.
PEDICULATI—Continued.		
Ceratidae—Continued.		
Corynolophus, Gill—		
<i>C. Reinhardtii</i> , (Lütken), Gill.....		494
Ægeonichthys, Clarke—		
<i>A. Appellii</i> , Clarke.....		494
Melanocetus, Gthr.—		
<i>M. Johnsonii</i> , Gthr.....	CXX, 406	494
Liocetus, Gthr.—		
<i>L. Murrayi</i> , Gthr.....	CXX, 407	495
Linophryne, Collett—		
<i>L. lucifer</i> , Collett.....	CXXI, 408	496
Caulophryne, G. & B.—		
<i>C. Jordani</i> , G. & B. (plate as <i>C. setosus</i>).....	CXXI, 409	496
Onchocephalidae—		
Onchocephalus, (Fisch.), Gill—		
<i>O. radiatus</i> , (Mitch.), G. & B.....		498
<i>vespertilio</i> , (L.), G. & B.....		499, 537
Malthopsis, Alc.—		
<i>M. luteus</i> , Alc.....		537
Halientæa, C. & V.—		
<i>H. stellata</i> , C. & V.....	CXIX, 403	499
<i>coccinea</i> , Alc.....	CXXI, 410	499
<i>nigra</i> , Alc.....		537
<i>spongiosa</i> , Gilb.....		537
<i>fumosa</i> , Alc.....		537
Halientella, G. & B.—		
<i>H. lappa</i> , G. & B.....	CXXII, 412	500
Dibranchus, Peters—		
<i>D. atlanticus</i> , Peters.....	CXXII, 413	501
<i>nasutus</i> , Alc.....		537
<i>micropus</i> , Alc.....		537
Halimetes, Alc.—		
<i>H. ruber</i> , Alc.....		503
Halientichthys, Poey—		
<i>H. aculeatus</i> , (Mitch.), Goode.....	CXXII, 414	504
APPENDIX:		
Additions and corrections.....		507
ALPHABETICAL INDEX.....		539

OCEANIC ICHTHYOLOGY.

LIST OF PLATES AND FIGURES.

NOTE.—The actual size of the specimens from which the figures are drawn may, in most instances, be determined by the use of the inch mark beneath the engraving, which in the photographic reduction of the drawing is reduced in the same proportion as the drawing itself. Where this is not present, the scale of reduction is approximately indicated in this list of plates, except in the case of outlines copied from published figures and of large species of very variable length, such as the sharks and rays. Where no reference to length appears either upon the plate or in the list of figures, it may be assumed that the figure is of natural size, or nearly so.

PLATE I.

	Text page.
1. <i>Myxine glutinosa</i> , Linnaeus.....	2
Drawing by H. L. Todd, from No. 23166, U. S. N. M. (Gloucester Donation No. 287), N. lat. 43-33, W. lon. 52-10', 300 fathoms.	
2. <i>Myxine australis</i> , Jenyns.....	3
Drawing by A. H. Baldwin, from a specimen collected by the steamer <i>Albatross</i> at Station 2770, in S. lat. 48-37-00', W. lon. 65-16-00', at a depth of 58 fathoms.	
3. <i>Petromyzon marinus</i> , Linnaeus.....	4
Drawing by H. L. Todd, from No. 10654, U. S. N. M., collected at Wood's Holl, Mass., by Vinal N. Edwards.	

PLATE II.

1. <i>Scymnorhinus fischia</i> , (Bonaparte), Bonaparte.....	7
Drawing from Bonaparte, Fauna Italica, Pl. 142.	
5. <i>Etmopterus pusillus</i> , (Lowe), Günther.....	10
Drawing by H. L. Todd, from a specimen collected by the steamer <i>Blake</i> at Station CVIII, off St. Kitt's, West Indies, in 208 fathoms. (About three-fourths natural size.)	
6. <i>Scylliorhinus retifer</i> , (Garman), Jordan.....	10
Drawing by H. L. Todd, from a specimen collected by the steamer <i>Blake</i> at Station CVII, off Barbados. (Slightly reduced.)	
7. <i>Centroscyllium Fabricii</i> , (Reinhardt), Müller and Henle.....	11
Drawing by A. H. Baldwin, from No. 22879, U. S. N. M., collected by George W. Scott, in N. lat. 44-23, W. lon. 53-25, at a depth of 200 fathoms.	

PLATE III.

8. <i>Somniosus microcephalus</i> , (Schneider), Goode and Bean.....	7
Outline from Day, Fishes of Great Britain and Ireland, Pl. CLXII, Fig. 1.	
9. <i>Echinorhinus spinosus</i> , (Gmelin), Blainville.....	8
Outline from Day, Fishes of Great Britain and Ireland, Vol. II, Pl. CLXII, Fig. 2.	
10. <i>Pristiurus melastomus</i> , (Rafinesque), Bonaparte.....	20
Drawing from Annales du Muséum d'Hist. Nat. Paris, Vol. XVII, Pl. VI.	
11. <i>Centrophorus granulosus</i> , Müller and Henle.....	12
Outline from Müller and Henle, Elasmobranchs, Pl. 33.	

PLATE IV.

	Text page.
12. <i>Scymnodon ringens</i> , Bocage and Capello.....	11
Drawing from Bocage and Capello, Peix. Plagiost., Vol. 1, Pl. 1, Fig. 1.	
13. <i>Centroscyrnus coelolepis</i> , Bocage and Capello.....	14
Drawing by H. L. Todd, from No. 26219, U. S. N. M., collected by the steamer <i>Fish Hawk</i> at Station 893, off Marthas Vineyard, N. lat. 39° 52' 20", W. lon. 70° 58' 00", in 372 fathoms. (About two-thirds natural size.)	
14, 15. <i>Scylliorhinus retifer</i> , (Garman), Jordan.....	16
Drawings by H. L. Todd, from No. 26745, U. S. N. M., collected by the steamer <i>Fish Hawk</i> at Station 896, in N. lat. 37° 26', W. lon. 71° 19', at a depth of 56 fathoms.	

PLATE V.

16. <i>Scylliorhinus profundorum</i> , Goode and Bean.....	17
Drawing by M. M. Smith, from No. 35646, U. S. N. M., collected by the steamer <i>Albatross</i> at Station 2234, in N. lat. 39° 09', W. lon. 72° 03' 15", at a depth of 810 fathoms.	
17. <i>Spinax niger</i> , Bonaparte.....	19
Drawing from Bonaparte, Fauna Italica.	
18. <i>Pseudotriacis microdon</i> , Capello.....	18
Drawing by H. L. Todd, from No. 32516, U. S. N. M., from Amagansett, N. Y., collected by J. B. Edwards, keeper of Suffolk Life-Saving Station. (About one-seventeenth natural size.)	
19. <i>Cetorhinus maximus</i> , Gunner.....	21
Drawing from Annales du Musée d'Hist. Nat. Paris, Vol. XVIII, Pl. VI: reëngraved from Fish. Ind., Pl. 249, upper figure.	

PLATE VI.

20. <i>Pristiurus atlanticus</i> , Vaillant.....	21
Outline from Vaillant, Explorations Scientifiques du Travailleur et Talisman, Pl. 1, Fig. 1.	
21. <i>Oxynotus centrina</i> , (Linnaeus), Rafinesque.....	15
Drawing from Bonaparte, Fauna Italica, Pl. 141.	
22. <i>Chlamydoselachus anguineus</i> , Garman.....	22
Outline from Day, Fishes of Great Britain and Ireland, Pl. CLXXIV.	

PLATE VII.

23. <i>Raia Ackleyi</i> , Garman.....	25
Drawing by J. C. Van Hook, from No. 43726, U. S. N. M., collected by the steamer <i>Blake</i> on Yucatan Banks, Gulf of Mexico.	
24. <i>Raia Ackleyi ornata</i> , Garman.....	26
Drawing by J. C. Van Hook, from No. 43727, U. S. N. M., from the Museum of Comparative Zoölogy, collected at a depth of 138-142 fathoms. (Slightly enlarged.)	

PLATE VIII.

25. <i>Raia circularis</i> , Couch.....	27
Outline from Day, Fishes of Great Britain and Ireland, Pl. CLXXIV.	
26. <i>Raia plutonia</i> , Garman.....	27
Outline by J. C. Van Hook, from a specimen collected by the steamer <i>Blake</i> , in about N. lat. 32°, W. lon. 78°, at a depth of 229-334 fathoms.	

PLATE IX.

27. <i>Raia radiata</i> , Donovan.....	25
Drawing by H. L. Todd, from No. 23514, U. S. N. M., collected by the U. S. Fish Commission off Provincetown, Mass. (About four-sevenths natural size.)	
28. <i>Raia hyperborea</i> , Collett.....	28
Outline from Collett, Fishes Norwegian North Atlantic Expedition, Pl. IX.	
29. <i>Raia lævis</i> , Mitchell.....	28
Drawing by H. L. Todd, from No. 21577, U. S. N. M., collected by the steamer <i>Fish Hawk</i> at Station 771, in Narragansett Bay, at a depth of 8½ fathoms.	
30. <i>Raia granulata</i> , Gill.....	29
Drawing by H. L. Todd, from the type specimen, collected by Capt. Joseph W. Collins, of the Gloucester fishing fleet, on Le Have Bank. (About one-fourteenth natural size.)	

PLATE X.

	Text page.
31. <i>Chimæra monstrosa</i> , Linnaeus.....	31
Outline from Bonaparte, Fauna Italica, Pl. 130.	
32. <i>Chimæra affinis</i> , Capello.....	31
Drawing by H. L. Todd, from a specimen collected on the southeastern portion of Le Haye Bank, in N. lat. 42° 40', W. lon. 63° 23'. (About one-seventh natural size.)	
33-35. <i>Chimæra affinis</i> , Capello.....	31
Drawings by S. F. Denton, from a specimen collected by the schooner <i>Centennial</i> , Capt. D. C. Murphy, off Banquereux, in N. lat. 43° 46', W. lon. 59° 49'. (Natural size.)	
36. <i>Callorhynchus antarcticus</i> , (Linnaeus).....	32
Outline from Zoölogy of Beechey's Voyage, Pl. XXIII.	

PLATE XI.

37, 38. <i>Harriotta Raleighana</i> , Goode and Bean.....	33
Drawings by M. M. Smith, from No. 35631, U. S. N. M., collected by the steamer <i>Albatross</i> at Station 2235, in N. lat. 39° 12' 00", W. lon. 72° 03' 30", at a depth of 797 fathoms.	
39, 40. <i>Harriotta Raleighana</i> , Goode and Bean.....	33
Drawings by S. F. Denton, from No. 35520, U. S. N. M., collected by the steamer <i>Albatross</i> , at Station 2210, in N. lat. 39° 37' 45", W. lon. 71° 18' 45", at a depth of 991 fathoms. (About one and three-fourths natural size.)	

PLATE XII.

41. <i>Alepocephalus rostratus</i> , Risso.....	36
Outline from Cuvier and Valenciennes, Histoire Naturelle des Poissons de la France, Pl. 566.	
42. <i>Alepocephalus niger</i> , Günther.....	38
Outline from Günther, Challenger Report, Vol. XXII, Pl. LVI.	
43. <i>Conocara macroptera</i> , (Vaillant), Goode and Bean.....	39
Outline from Vaillant, Expéditions Scientifiques du Travailleur et du Talisman, Pl. XI, Fig. 2.	
44. <i>Bathytroctes macrolepis</i> , Günther.....	41
Outline from Günther, Challenger Report, Vol. XXII, Pl. LVII, Fig. A.	

PLATE XIII.

45. <i>Alepocephalus Agassizii</i> , Goode and Bean.....	37
Drawing by H. L. Todd, from No. 33056, U. S. N. M., collected by the steamer <i>Albatross</i> at Station 2030, in N. lat. 39° 29' 45", W. lon. 71° 43', at a depth of 588 fathoms.	
46. <i>Alepocephalus productus</i> , Gill.....	37
Drawing by H. L. Todd, from type No. 33341, U. S. N. M., collected by the steamer <i>Albatross</i> at Station 2035, in N. lat. 39° 26' 16", W. lon. 70° 02' 37", at a depth of 1,362 fathoms.	
47. <i>Alepocephalus Bairdii</i> , Goode and Bean.....	38
Drawing by H. L. Todd, from type No. 22468, U. S. N. M. (Gloucester Donation No. 305), collected by Christian Johnson, of the schooner <i>William Thompson</i> , on the Grand Banks, in 200 fathoms. (About one-fourth natural size.)	
48. <i>Conocara McDonaldi</i> , Goode and Bean.....	39
Drawing by S. F. Denton, from a specimen collected by the steamer <i>Blake</i> at Station CLXXII, in N. lat. 24° 36', W. lon. 81° 05', at a depth of 955 fathoms.	

PLATE XIV.

49. <i>Bathytroctes antillarum</i> , Goode and Bean.....	41
Drawing by M. M. Smith, from type No. 43739, U. S. N. M., collected by the steamer <i>Albatross</i> at Station 2394, in N. lat. 28° 38' 30", W. lon. 87° 02', at a depth of 420 fathoms.	
50. <i>Bathytroctes æquatoris</i> , Goode and Bean.....	44
Drawing by A. H. Baldwin, from a specimen obtained by the steamer <i>Albatross</i> at Station 2793, in N. lat. 01° 03', W. lon. 80° 15', at a depth of 741 fathoms.	
51. <i>Aleposomus Copei</i> , Gill.....	47
Drawing by H. L. Todd, from type No. 33551, U. S. N. M., collected by the steamer <i>Albatross</i> at Station 2099, in N. lat. 37° 12' 20", W. lon. 69° 39', at a depth of 2,949 fathoms.	

	Text page.
52. <i>Pterothrissus gissu</i> , Hilgendorf.....	51
Outline from Günther, Challenger Report, Vol. XXII, Pl. LVI, Fig. A. (About one-half natural size.)	
PLATE XV.	
53. <i>Platytroctes apus</i> , Günther.....	46
Outline from Günther, Challenger Report, Vol. XXII, Pl. LVIII, Fig. A.	
54. <i>Anomalopterus pinguis</i> , Vaillant.....	49
Outline from Vaillant, Expéditions Scientifiques du Travailleur et du Talisman, Pl. XI, Fig. 4.	
55. <i>Aulastatomorpha phosphorops</i> , Alcock.....	50
Outline from Wood-Mason, Natural History Notes from H. M. Indian survey steamer <i>Investigator</i> , No. 21, Fig. 1. (One-half natural size.)	
56. <i>Leptoderma macrops</i> , Vaillant.....	49
Outline from Vaillant, Expéditions Scientifiques du Travailleur et du Talisman, Pl. XII, Fig. 2.	
PLATE XVI.	
57. <i>Xenodermichthys nodulosus</i> , Günther.....	46
Outline from Günther, Challenger Report, Vol. XXII, Pl. LVIII, Fig. C.	
58. <i>Aleposomus socialis</i> , (Vaillant), Goode and Bean.....	48
Outline from Vaillant, Expéditions Scientifiques du Travailleur et du Talisman, Pl. XIII, Fig. 1.	
59. <i>Microstoma rotundatum</i> , (Risso), Günther.....	53
Outline from Cuvier and Valenciennes, Histoire Naturelle des Poissons de la France, Vol. XVIII, Pl. 511.	
60. <i>Harpodon macrochir</i> , Günther.....	59
Outline from Günther, Challenger Report, Vol. XXII, Pl. XLVII, Fig. A.	
PLATE XVII.	
61. <i>Argentina silus</i> , (Ascanius), Nilsson.....	52
Drawing by H. L. Todd, from No. 37891, U. S. N. M., collected by E. H. Bunker, Fletchers Neck Life-Saving Station, Biddeford, Me. (About one-half natural size.)	
62. <i>Argentina striata</i> , Goode and Bean.....	52
Drawing by A. H. Baldwin, from type No. 43858, U. S. N. M., collected by the steamer <i>Albatross</i> at Station 2102, in N. lat. 28° 36', W. lon. 85° 33' 30", at a depth of 111 fathoms.	
63. <i>Bathylagus euryops</i> , Goode and Bean.....	55
Drawing by A. H. Baldwin, from 31861, U. S. N. M., collected by the steamer <i>Albatross</i> in N. lat. 39° 52', W. lon. 70° 30', at a depth of about 600 fathoms.	
64. <i>Bathylagus benedicti</i> , Goode and Bean.....	55
Drawing by A. H. Baldwin, from a specimen collected by the steamer <i>Albatross</i> at Station 2711, in N. lat. 38° 59', W. lon. 70° 07', at a depth of 1,311 fathoms.	
PLATE XVIII.	
65, 66. <i>Bathysaurus ferox</i> , Günther.....	58
Drawings by H. L. Todd, from a specimen obtained by the steamer <i>Blake</i> at Station CCCXLI, in N. lat. 39° 38' 20", W. lon. 70° 56', at a depth of 1,241 fathoms.	
67, 68. <i>Ipnops murrayi</i> , Günther.....	67
Drawings by H. L. Todd, from a specimen collected by the steamer <i>Blake</i> at Station CCXXXIII, in N. lat. 24° 36', W. lon. 81° 05', at a depth of 955 fathoms. (No. 67, three times natural size; No. 68, one and a half times.)	
69. <i>Bathylaco nigricans</i> , Goode and Bean.....	57
Drawing by A. H. Baldwin, from the type specimen collected by the steamer <i>Blake</i> at Station XXXIX, off Santa Cruz, in 2,393 fathoms.	
PLATE XIX.	
70. <i>Chlorophthalmus agassizii</i> , Bonaparte.....	60
Drawing by A. H. Baldwin, from a specimen collected by the steamer <i>Albatross</i> at Station 2314, in N. lat. 32° 43', W. lon. 77° 51', at a depth of 159 fathoms.	
71. <i>Chlorophthalmus chalybeius</i> , Goode.....	60
Drawing by H. L. Todd, from No. 26092, U. S. N. M., collected by the steamer <i>Fish Hawk</i> at Stations 876-878, off Marthas Vineyard, in 120-112½ fathoms. (About one and a half times natural size.)	

	Text page.
72. <i>Chlorophthalmus truculentus</i> , Goode and Bean	61
Drawing by M. M. Smith, from the type specimen collected by the steamer <i>Blake</i> at Station LII, off Barbados, in 218 fathoms.	
73. <i>Benthosaurus grallator</i> , Goode and Bean	62
Drawing by H. L. Todd, from a specimen collected by the steamer <i>Blake</i> at Station CLXXIV, in N. lat. 21° 23', W. lon. 81° 23', at a depth of 1,850 fathoms.	

PLATE XX.

74. <i>Bathypterois dubius</i> , Vaillant	64
Outline from Vaillant, <i>Expeditions Scientifiques du Travailleur et du Talisman</i> , Pl. IX.	
75. <i>Bathypterois quadrifilis</i> , Günther	65
Drawing by A. H. Baldwin, from a specimen collected by the steamer <i>Blake</i> at Station XCVIII, off St. Vincent.	
76. <i>Bathypterois longipes</i> , Günther	66
Drawing by M. M. Smith, from No. 35635, U. S. N. M., collected by the steamer <i>Albatross</i> at Station 2225, in N. lat. 36° 05' 30", W. lon. 69° 51' 15", at a depth of 2,512 fathoms.	

PLATE XXI.

77. <i>Rondeletia bicolor</i> , Goode and Bean	68
Drawing by H. L. Todd, from type No. 38202, U. S. N. M., collected by the steamer <i>Albatross</i> at Station 2724, in N. lat. 36° 47', W. lon. 73° 25', at a depth of 1,611 fathoms. (Enlarged one-half.)	
78. <i>Cetomimus Gillii</i> , Goode and Bean	69
Drawing by M. M. Smith, from type No. 35529, U. S. N. M., collected by the steamer <i>Albatross</i> at Station 2206, in N. lat. 39° 35', W. lon. 71° 24' 30", at a depth of 1,013 fathoms.	
79. <i>Cetomimus Storeri</i> , Goode and Bean	69
Drawing by M. M. Smith, from type No. 35634, U. S. N. M., collected by the steamer <i>Albatross</i> at Station 2222, in N. lat. 39° 03' 15", W. lon. 70° 50' 15", at a depth of 1,535 fathoms.	

PLATE XXII.

80. <i>Myctophum punctatum</i> , Rafinesque	71
Drawing by H. L. Todd, from No. 23369, U. S. N. M., collected by Capt. Matt. Ryan and crew, Gloucester fishing fleet, on the Grand Bank.	
81. <i>Myctophum opalinum</i> , Goode and Bean	72
Drawing by J. C. Van Hook, from No. 43798, U. S. N. M., collected by the steamer <i>Albatross</i> at Station 2585, in N. lat. 39° 08' 30", W. lon. 72° 17', at a depth of 512 fathoms. (Natural size.)	
82. <i>Myctophum Humboldtii</i> , (Risso), Goode and Bean	73
Drawing by J. C. Van Hook, from No. 43772, U. S. N. M., collected by the steamer <i>Albatross</i> at Station 2727, in N. lat. 36° 35', W. lon. 74° 03' 30", at a depth of 1,239 fathoms.	
83. <i>Myctophum Benoitii</i> , (Cocco), Goode and Bean	74
Drawing by A. H. Baldwin, from a specimen collected at Messina, Italy, by Prof. H. H. Giglioli.	
84. <i>Myctophum remiger</i> , Goode and Bean	75
Drawing by J. C. Van Hook, from type No. 43792, U. S. N. M., collected by the steamer <i>Albatross</i> at Station 2573, in N. lat. 40° 34' 18", W. lon. 66° 09' 00", at a depth of 1,742 fathoms.	
85. <i>Benthoema Mülleri</i> , Goode and Bean	76
Drawing by A. H. Baldwin, from No. 28839, U. S. N. M., collected by the steamer <i>Fish Hawk</i> at Station 953, in N. lat. 39° 52' 30", W. lon. 70° 47' 30", at a depth of 724 fathoms.	

PLATE XXIII.

86. <i>Lampanyctus crocodilus</i> , (Risso), Goode and Bean	79
Drawing by A. H. Baldwin, from a specimen collected at Nice, and obtained through the Royal Zoölogical Museum at Florence, Italy.	
87. <i>Lampanyctus Gemellarii</i> , (Cocco), Goode and Bean	80
Drawing by A. H. Baldwin, from No. 44170, U. S. N. M., obtained from Messina by Prof. H. H. Giglioli, director of the Royal Zoölogical Museum, Florence, Italy.	
88. <i>Lampanyctus gemmifer</i> , Goode and Bean	80
Drawing by A. H. Baldwin, from type No. 35604, U. S. N. M., collected by the steamer <i>Albatross</i> at Station 2201, in N. lat. 39° 39' 45", W. lon. 71° 35' 15", at a depth of 538 fathoms.	

PLATE XXIV.

	Text page.
89. <i>Lampanyctus lacerta</i> , Goode and Bean	81
Drawing by A. H. Baldwin, from type No. 43778, U. S. N. M., collected by the steamer <i>Albatross</i> at Station 2401, in N. lat. 28° 38' 30", W. lon. 85° 52' 30", at a depth of 142 fathoms.	
90. <i>Lampanyctus Güntheri</i> , Goode and Bean	79
Drawing by A. H. Baldwin, from type No. 43777, U. S. N. M., (Gloucester Donation No. 199), collected by the schooner <i>John Smith</i> , Capt. Peter Johnson, on Georges Bank, in 45 fathoms.	
91. <i>Ceratoscopelus maderensis</i> , (Lowe), Goode and Bean	82
Drawing by J. C. Van Hook, from No. 43776, U. S. N. M., collected by the steamer <i>Albatross</i> at Station 2528, in N. lat. 41° 47', W. lon. 65° 37' 30", at a depth of 677 fathoms. (Nearly twice natural size.)	
92. <i>Lampanyctus alatus</i> , Goode and Bean	79
Drawing by A. H. Baldwin, from type No. 43769, U. S. N. M., collected by the steamer <i>Albatross</i> at Station 2393, in N. lat. 28° 43', W. lon. 87° 11' 30", at a depth of 525 fathoms.	
93. <i>Diaphus theta</i> , Eigenmann and Eigenmann	89
Drawing by A. H. Baldwin, from the type specimen taken at moderate depth off Point Loma, near San Diego, Cal.	

PLATE XXV.

94. <i>Notoscopelus resplendens</i> , (Richardson), Goode and Bean	83
Copied by A. H. Baldwin, from Richardson, Voyage of the <i>Erebus</i> and <i>Terror</i> , Pl. xxvii, Fig. 16.	
95. <i>Notoscopelus castaneus</i> , Goode and Bean	81
Drawing by A. H. Baldwin, from type No. 31706, U. S. N. M., collected by the steamer <i>Fish Hawk</i> at Station 1113, in N. lat. 39° 57', W. lon. 70° 37', at a depth of 192 fathoms.	
96. <i>Notoscopelus caudispinosus</i> , (Johnson), Goode and Bean	81
Drawing by A. H. Baldwin, from No. 43768, U. S. N. M., collected by the steamer <i>Albatross</i> at Station 2569, in N. lat. 39° 26', W. lon. 68° 03' 30", at a depth of 1,782 fathoms.	

PLATE XXVI.

97. <i>Notoscopelus quercinus</i> , Goode and Bean	83
Drawing by A. H. Baldwin, from type No. 43789, U. S. N. M., (Gloucester Donation No. 822), collected by Capt. Frank Carroll and crew, of the schooner <i>Polar Wave</i> , off St. Peter's and Banquereux.	
98. <i>Notoscopelus margaritiferus</i> , Goode and Bean	84
Drawing by A. H. Baldwin, from No. 43774, U. S. N. M., (Gloucester Donation 404), collected by Capt. G. H. Curtis and crew, of the schooner <i>Conductor</i> , in N. lat. 44° 10', W. lon. 58°, at a depth of 300 fathoms.	
99. <i>Lampadena speculigera</i> , Goode and Bean	85
Drawing by J. C. Van Hook, from type No. 43797, U. S. N. M., collected by the steamer <i>Fish Hawk</i> at Station 797, off Newport, R. I., at a depth of 16½ fathoms.	
100. <i>Collettia Rafinesquei</i> , (Cocco), Goode and Bean	88
Drawing by H. L. Todd, from No. 33550, U. S. N. M., collected by the steamer <i>Albatross</i> , at Station 2099, in N. lat. 37° 12' 20", W. lon. 69° 39' 00", at a depth of 2,949 fathoms.	

PLATE XXVII.

101. <i>Æthoprora metopoclampa</i> , (Cocco), Goode and Bean	86
Drawing by A. H. Baldwin, from a specimen collected by the steamer <i>Albatross</i> at Station, 2127, in N. lat. 19° 45', W. lon. 75° 04' 00", at a depth of 1,639 fathoms; and a specimen from Messina, obtained from Prof. H. H. Giglioli, director of the Royal Zoological Museum, Florence, Italy.	
102. <i>Æthoprora lucida</i> , Goode and Bean	87
Drawing by A. H. Baldwin, from No. 41081, U. S. N. M., collected by the steamer <i>Albatross</i> , at Station 2127, in N. lat. 19° 45', W. lon. 75° 04' 00", at a depth of 1,639 fathoms.	
103. <i>Æthoprora effulgens</i> , Goode and Bean	87
Drawing by A. H. Baldwin, from No. 43770, U. S. N. M., collected by Capt. Cuddy and crew of the schooner <i>Joseph O</i> , on Brown's Bank.	

PLATE XXVIII.

Text page.

104. **Rhinoscopelus Coccoi**, (Cocco), Goode and Bean 90
 Drawing by J. C. Van Hook, from No. 43822, U. S. N. M., collected by the steamer *Albatross*, in a towing net, in N. lat. 39°, W. lon. 72°. (About twice natural size.)
105. **Tarletonbeania tenua**, Eigenmann and Eigenmann 89
 Drawing by A. H. Baldwin, from No. 41882, U. S. N. M., collected by C. H. Eigenmann, off Point Loma, near San Diego, Cal.
106. **Dasyscopelus asper**, (Richardson), Goode and Bean 92
 Copied by A. H. Baldwin, from Richardson, *Voyage of the Erebus and Terror*, Pl. XXVII, Fig. 105.
107. **Electrona Rissoi**, (Cocco), Goode and Bean 91
 Drawing by A. H. Baldwin, from No. 40062, U. S. N. M., from the Central Collection of Italian Vertebrata, Royal Zoölogical Museum, Florence, Italy. (Enlarged about one-half.)

PLATE XXIX.

- 108, 109. **Neoscopelus macrolepidotus**, Johnson 93
 Drawings by M. M. Smith, from a specimen collected by the steamer *Blake*, at Station XLI, off Dominique, in 333 fathoms.
110. **Nannobrachium McDonaldi**, Goode and Bean 94
 Drawing by S. F. Denton, from No. 35145, U. S. N. M., collected by the steamer *Albatross*, at Station 2182, in N. lat. 39° 25' 30", W. lon. 71° 44", at a depth of 861 fathoms.

PLATE XXX.

111. **Maurolicus borealis**, (Nilsson), Günther 96
 Drawing by A. H. Baldwin, from a specimen collected by the steamer *Albatross*, at Station 2102, in N. lat. 28° 36', W. lon. 85° 33', at a depth of 111 fathoms.
112. **Opisthoproctus soleatus**, Vaillant 95
 Drawing from Vaillant, *Expeditions Scientifiques du Travailleur et du Talisman*, Pl. XIV, Fig. 1. (Nearly four times natural size.)
113. **Ichthyococcus ovatus**, (Cocco), Bonaparte 95
 Outline from Vaillant, *Expeditions Scientifiques du Travailleur et du Talisman*, Pl. XIV, Fig. 2.
114. **Cyclothone microdon**, (Günther), Goode and Bean 99
 Drawing by H. L. Todd, from No. 29833, U. S. N. M., collected by the steamer *Fish Hawk*, at Station 953, off Marthas Vineyard, in N. lat. 39° 52' 30", W. lon. 70° 17' 30", at a depth of 724 fathoms. (Nearly twice natural size.)

PLATE XXXI.

115. **Chauliodus Sloanii**, Schneider 96
 Drawing by H. L. Todd, from No. 23120, U. S. N. M., collected by Capt. Charles Anderson and crew, of the Gloucester fishing fleet, in N. lat. 42° 08', W. lon. 65° 35', at a depth of 185 fathoms. (About one-half natural size.)
116. **Gonostoma denudatum**, Rafinesque 98
 Drawing from Bonaparte, *Fauna Italica*, folio 119, Fig. 1.
117. **Gonostoma brevideus**, Kner and Steindachner 98
 Drawing by H. L. Todd, from No. 33368, U. S. N. M., collected by the steamer *Albatross*, at Station 2077, in N. lat. 41° 09' 40", W. lon. 66° 02' 20", at a depth of 1,255 fathoms. (Slightly reduced.)
118. **Cyclothone bathyphila**, (Vaillant), Goode and Bean 100
 Drawing by A. H. Baldwin, from a specimen collected by the steamer *Albatross*, at Station 2534, in N. lat. 40° 01', W. lon. 67° 29' 15", at a depth of 1,234 fathoms.

PLATE XXXII.

119. **Cyclothone elongata**, (Günther), Goode and Bean 101
 Drawing by A. H. Baldwin, from No. 33291, U. S. N. M., collected by the steamer *Albatross*, at Station 2039, in N. lat. 38° 19' 26", W. lon. 68° 20' 20", at a depth of 2,369 fathoms. (Nearly twice natural size.)
120. **Bonapartia pedaliota**, Goode and Bean 102
 Drawing by H. L. Todd, from the type specimens, collected by the steamer *Albatross*, at Station 2612, in N. lat. 25° 20' 30", W. lon. 79° 58', at a depth of 217 fathoms. (Enlarged about one-half.)

	Text page.
121. Yarella Blackfordii , Goode and Bean.....	103
Drawing by A. H. Baldwin, from type No. 41212, U. S. N. M., collected by the steamer <i>Albatross</i> , at Station 2376, in N. lat. 29° 03' 15", W. lon. 88° 16', at a depth of 324 fathoms. (Slightly reduced.)	
122. Photichthys argenteus , Hutton.....	104
Drawing from Günther, Challenger Report, Vol. XXII, Pl. XLV. (About one-half natural size.)	
PLATE XXXIII.	
123. Astronesthes niger , Richardson.....	105
Drawing by A. H. Baldwin, from No. 34538, U. S. N. M., collected by Capt. Field, on a voyage from Mogador to New York, and presented to the National Museum by Mr. E. G. Blackford.	
124. Antronesthes gemmifer , Goode and Bean.....	105
Drawing by A. H. Baldwin, from type No. 24615, U. S. N. M., obtained by the schooner <i>Polar Ware</i> from the stomach of a halibut, in N. lat. 44° 25', W. lon. 53° 12', at a depth of 300 fathoms.	
125. Astronesthes Richardsonii , Poey.....	106
Drawing by M. M. Smith, from No. 35510, U. S. N. M., collected by the steamer <i>Albatross</i> , at Station 2202, in N. lat. 39° 38' 00", W. lon. 71° 39' 45", at a depth of 515 fathoms.	
PLATE XXXIV.	
126. Diplophos tænia , Günther.....	104
Drawing from Günther, Challenger Report, Vol. XXII, Pl. IV., (Enlarged nearly five times.)	
127. Stomias ferox , Reinhardt.....	107
Drawing by H. L. Todd, from No. 23360, U. S. N. M. (Gloucester donation No. 490), collected by Capt. David Cammel and crew, of the Gloucester fishing fleet, at East Banquerieux (Three-fifths natural size.)	
128. Stomias boa , (Risso), Cuvier.....	108
Drawing from Cuvier and Valenciennes, Histoire Naturelle des Poissons, Vol. XVIII, Pl. 515.	
129. Stomias affinis , Günther.....	108
Drawing from Günther, Challenger Report, Vol. XXII, Pl. LIV, Fig. A.	
PLATE XXXV.	
130. Echiostoma barbatum , Lowe.....	109
Drawing by S. F. Denton, from No. 35624, U. S. N. M., collected by the steamer <i>Albatross</i> , at Station 2236, in N. lat. 39° 11' 00", W. lon. 72° 08' 30", at a depth of 636 fathoms. (Enlarged one-third.)	
131. Echiostoma margarita , Goode and Bean.....	109
Drawing by A. H. Baldwin, from type No. 39282, U. S. N. M., collected by the steamer <i>Albatross</i> , at Station 2394, in N. lat. 28° 38' 30", W. lon. 87° 02', at a depth of 120 fathoms.	
132. Opostomias micripnus , Günther.....	110
Drawing from Günther, Challenger Report, Vol. XXII, Pl. LIII, Fig. A. (About one-half natural size.)	
133. Grammatostomias dentatus , Goode and Bean.....	110
Drawing by H. L. Todd, from type No. 37370, U. S. N. M., collected by the steamer <i>Albatross</i> , at Station 2565, in N. lat. 38° 19' 20", W. lon. 69° 02' 30", at a depth of 2,069 fathoms. (Slightly enlarged.)	
PLATE XXXVI.	
134. Pachystomias microdon Günther.....	111
Outline from Günther, Challenger Report, Vol. XXII, Pl. LIII.	
135. Eustomias obscurus , Vaillant.....	111
Outline from Vaillant, Expéditions Scientifiques du Travailleur et du Talisman, Pl. VIII, Fig. 3.	
136. Bathophilus nigerrimus , Giglioli.....	111
Outline from Giglioli, "Pelagos." (Enlarged one-third.)	
137. Photonectes gracilis , Goode and Bean.....	112
Drawing by M. M. Smith, from the type specimen collected by the steamer <i>Blake</i> at Station 222, off Martinique, in 172 fathoms.	
PLATE XXXVII.	
138. Malacosteus niger , Ayres.....	114
Drawing by H. L. Todd, from No. 32169 U. S. N. M. (Gloucester Donation, No. 797), collected by Capt. Charles Anderson and crew of the schooner <i>Alice G. Wanson</i> , on the northeastern edge of Georges Bank, in 125 fathoms. (Enlarged two-thirds.)	

	Text page.
139. <i>Malacosteus choristodactylus</i> , Vaillant.....	114
Drawing from Vaillant, <i>Expeditions Scientifiques du Travailleur et du Talisman</i> , Pl. viii.	
(Slightly enlarged.)	
140. <i>Photostomias Guernei</i> , Collett.....	115
Outline from Lütken, <i>Spolia Atlantica</i> , p. 281. (Three and a half times natural size.)	
141. <i>Thaumatostomias atrox</i> , Alcock.....	115
Drawing from Alcock, <i>Annals and Magazine of Natural History</i> , Vol. vi, Pl. viii, Fig. 7.	

PLATE XXXVIII.

142. <i>Alepisaurus ferox</i> , Lowe.....	117
Drawing by H. L. Todd, from No. 20593 U. S. N. M., obtained in a New York market by E. G. Blackford.	
143. <i>Paralepis borealis</i> , (Reinhardt), Jordan and Gilbert.....	119
Drawing by H. L. Todd, from a specimen in the Academy of Natural Sciences, Montreal, Canada.	
143A. <i>Paralepis coregonoides</i> , Risso.....	119
Outline from Bonaparte, <i>Fauna Italica</i> , Pl. xxvii.	
144. <i>Sudis hyalina</i> , Rallinesque.....	121
Outline from Bonaparte, <i>Fauna Italica</i> , Pl. xxvii.	
145. <i>Odontostomus hyalinus</i> , Cocco.....	121
Outline from Günther, <i>Challenger Report</i> , Vol. xxii, Pl. lii, Fig. A.	

PLATE XXXIX.

146. <i>Sternoptyx diaphana</i> , Lowe.....	124
Drawing by H. L. Todd, from a specimen obtained by the steamer <i>Blake</i> at Station cccxvi, in N. lat. 32° 07', W. lon. 78° 37' 30", at a depth of 229 fathoms.	
146B. <i>Sternoptyx diaphana</i> , Lowe.....	124
Drawing by H. L. Todd, from a specimen collected by the steamer <i>Blake</i> at Station cccxxiii, in N. lat. 33° 19', W. lon. 76° 12' 30", at a depth of 457 fathoms.	
147. <i>Argyrolepecus hemigymnus</i> , Cocco.....	126
Drawing by A. H. Baldwin, from a specimen collected by the steamer <i>Albatross</i> at Station 2117, in N. lat. 15° 24' 40", W. lon. 63° 31' 30", at a depth of 683 fathoms.	
148. 148A. <i>Argyrolepecus Olfersii</i> , (Cuvier), Cuvier and Valenciennes.....	126
Drawing by H. L. Todd, from No. 33393 U. S. N. M., collected at Station 2075, in N. lat. 41° 40' 30", W. lon. 65° 35' 00", at a depth of 855 fathoms. (Natural size.)	
149. <i>Polyipnus spinosus</i> , Günther.....	128
Drawing by H. L. Todd, from No. 37860 U. S. N. M., collected by the steamer <i>Albatross</i> at Station 2393, in N. lat. 28° 43' 00", W. lon. 87° 14' 30", at a depth of 525 fathoms. (Twice natural size.)	

PLATE XL.

150. <i>Omosudis Loweii</i> , Günther.....	122
Outline from Günther, <i>Challenger Report</i> , Vol. xxii, Pl. lii.	
151. <i>Idiacanthus ferox</i> , Günther.....	129
Outline from Günther, <i>Challenger Report</i> , Vol. xxii, Pl. lii, Fig. D.	
152. <i>Halosaurus Oweni</i> , Johnson.....	130
Drawing by A. H. Baldwin, from No. 34418 U. S. N. M., collected by the steamer <i>Albatross</i> at station 2181, in N. lat. 39° 29', W. lon. 71° 46', at a depth of 693 fathoms.	
153. <i>Halosaurus Johnsonianus</i> , Vaillant.....	131
Drawing from Vaillant, <i>Expeditions Scientifiques du Travailleur et du Talisman</i> , Pl. xv, Fig. 2.	

PLATE XLI.

154. <i>Aldrovandria rostrata</i> , (Günther), Goode and Bean.....	132
Drawing from Günther, <i>Challenger Report</i> , Vol. xxii, Pl. lix.	
155. 155A. <i>Aldrovandia macrochira</i> , (Günther), Goode and Bean.....	133
Drawings by H. L. Todd, from a specimen collected by the steamer <i>Blake</i> at Station liii, off Havana, in 242 fathoms.	
156. <i>Aldrovandia phalacrus</i> , (Vaillant), Goode and Bean.....	131
Drawing from Vaillant, <i>Expeditions Scientifiques du Travailleur et du Talisman</i> , Pl. xvi.	

PLATE XLII.

	Text page.
157. <i>Aldrovandia gracilis</i> , Goode and Bean.....	134
Drawing by S. F. Denton, from a specimen collected by the steamer <i>Blake</i> at Station LXX, off Guadalupe, at a depth of 769 fathoms. (About one-half natural size.)	
158. <i>Aldrovandia pallida</i> , Goode and Bean	135
Drawing by H. L. Todd, from the type specimen collected by the Steamer <i>Blake</i> at Station CLXXXII, in N. lat. 24° 36', W. lon. 84° 05', at a depth of 955 fathoms. (About seven-twelfths natural size.)	
159. <i>Congermuræna flava</i> , Goode and Bean.....	138
Drawing by H. L. Todd, from a specimen collected by the steamer <i>Albatross</i> at Stations 2121 and 2122, between N. lat. 10° 37' 40", W. lon. 61° 42' 40", and N. lat. 10° 37' 00", W. lon. 61° 44' 22", at a depth of 31 to 34 fathoms. (Five-sevenths natural size.)	
160. <i>Uroconger vicinus</i> , Vaillant	138
Drawing by H. L. Todd, from a specimen collected by the steamer <i>Albatross</i> at Station 2161, in N. lat. 23° 10' 36", W. lon. 82° 20' 28", at a depth of 146 fathoms. (Slightly reduced.)	

PLATE XLIII.

161. <i>Simenchelys parasiticus</i> , Gill.....	139
Drawing by H. L. Todd, from No. 21673, U. S. N. M., collected by Capt. N. McPhee, of the Gloucester fishing fleet, near Sable Island Bank. (Seven-tenths natural size.)	
162. <i>Ilyophis brunneus</i> , Gilbert	141
Drawing by A. H. Baldwin, from type No. 44403, U. S. N. M., collected by the steamer <i>Albatross</i> , off the Galapagos Islands.	
163. <i>Hoplunnis Diomedianus</i> , Goode and Bean	146
Drawing by J. C. Van Hook, from type No. 14210, U. S. N. M., collected by the steamer <i>Albatross</i> at Station 2402, in N. lat. 28° 36', W. lon. 86° 50', at a depth of 141 fathoms.	

PLATE XLIV.

164. <i>Synaphobranchus pinnatus</i> , (Gronovius), Günther.	143
Drawing by H. L. Todd, from No. 21681, U. S. N. M., collected by Capt. Olsen, of the Gloucester fishing fleet, on Le Have Bank. (Three-fifths natural size.)	
165. <i>Histiobranchus infernalis</i> , Gill	145
Drawing by H. L. Todd, from No. 38205, U. S. N. M., collected by the steamer <i>Albatross</i> at Station 2727, in N. lat. 36° 35', W. lon. 74° 03' 30", at a depth of 1239 fathoms.	
166. <i>Pisodonophis cruentifer</i> , Goode and Bean.....	147
Drawing by A. H. Baldwin, from No. 28938, U. S. N. M., collected by the steamer <i>Fish Hawk</i> at Station 1035, in N. lat. 39° 57', W. lon. 69° 28', at a depth of 120 fathoms. (Slightly reduced.)	
167. <i>Myrus pachyrhynchus</i> , Vaillant.....	148
Drawing from Vaillant, Expéditions Scientifiques du Travailleur et du Talisman, Pl. v, Fig. 1. (About one-half natural size.)	
168. <i>Venefica procera</i> , (Goode and Bean), Jordan and Davis.....	149
Drawing by H. L. Todd, from a specimen collected by the <i>Blake</i> at Station CLIII, in N. lat. 16° 43' 45", W. lon. 62° 16' 12", at a depth of 303 fathoms. (Seven-twelfths natural size.)	
169, 169A, B. <i>Derichthys serpentinus</i> , Gill.....	161
Drawings by H. L. Todd, from type No. 33523, U. S. N. M., collected by the steamer <i>Albatross</i> , at station 2091, in N. lat. 39° 44' 30", W. lon. 71° 01', at a depth of 1,022 fathoms.	

PLATE XLVI.

170. <i>Nemichthys scolopaceus</i> , Richardson.....	152
Drawing by H. L. Todd, from a specimen collected by William Parsons, on East Georges Bank.	
171. <i>Labichthys carinatus</i> , Gill and Ryder.....	153
Drawing by A. H. Baldwin, from type No. 33369, U. S. N. M., collected by the steamer <i>Albatross</i> , at station 2076, in N. lat. 41° 15', W. lon. 65° 33' 30", at a depth of 906 fathoms. (Slightly reduced.)	
172. <i>Labichthys elongatus</i> , Gill and Ryder.....	153
Drawing by A. H. Baldwin, from type No. 33577, U. S. N. M., collected by the steamer <i>Albatross</i> , at station 2100, in N. lat. 39° 22', W. lon. 68° 34' 30", at a depth of 1,628 fathoms.	

PLATE XLVII.

	Text page.
173. <i>Labichthys infans</i> , (Günther), Goode and Bean	153
Drawing by A. H. Baldwin, from type No. 4239, U. S. N. M., collected by the steamer <i>Albatross</i> , at station 2859, in N. lat. $55^{\circ} 20'$, W. lon. $136^{\circ} 20'$, at a depth of 1,569 fathoms. (About one-half natural size.)	
174. <i>Labichthys infans</i> (after Günther)	154
Outline from Günther, Challenger Report, Vol. xxii, Pl. LXIII.	
175. <i>Serrivomer Beanii</i> , Gill and Ryder	155
Drawing by A. H. Baldwin, from No. 33383, U. S. N. M., collected by the steamer <i>Albatross</i> , at station 2075, in N. lat. $41^{\circ} 40' 30''$, W. lon. $65^{\circ} 28' 30''$, at a depth of 855 fathoms. (About one and two-thirds natural size.)	

PLATE XLVIII.

176. <i>Cyema atrum</i> , Günther	154
Drawing from Günther, Challenger Report, Vol. xxii, Pl. LIV, Fig. D. (About natural size.)	
177. <i>Eurypharynx pelecánoides</i> , Vaillant	159
Drawing from Vaillant, Expéditions Scientifiques du Travailleur et du Talisman, Pl. xvii. (About one-half natural size.)	
178. <i>Saccopharynx flagellum</i> , Mitchill	157
Drawing from Günther, Challenger Report, Vol. xxii, Pl. LXVI. (Enlarged about one-half.)	

PLATE XLIX.

179, 180. <i>Saccopharynx flagellum</i> , Mitchill	157
Drawings by H. L. Todd, from No. 37988, U. S. N. M., collected by the steamer <i>Albatross</i> , at station 2717, in N. lat. $38^{\circ} 21'$, W. lon. $71^{\circ} 13'$, at a depth of 1,615 fathoms. (No. 179, one-third natural size; No. 180, one-half.)	
181, 182. <i>Gastrostomus Bairdii</i> , Gill and Ryder	159
Drawings by H. L. Todd, from No. 33386, U. S. N. M., collected by the steamer <i>Albatross</i> , at station 2074, in N. lat. $41^{\circ} 43'$, W. lon. $65^{\circ} 21' 50''$, at a depth of 1,309 fathoms.	

PLATE L.

183. <i>Notacanthus nasus</i> , Bloch	164
Drawing from Cuvier and Valenciennes, Histoire Naturelle des Poissons de la France, Pl. 211.	
184. <i>Notacanthus analis</i> , Gill	165
Drawing by H. L. Todd, from type No. 37856, U. S. N. M., collected by the steamer <i>Albatross</i> , at station 2677, in N. lat. $32^{\circ} 39'$, W. lon. $76^{\circ} 50' 30''$, at a depth of 478 fathoms. (About one-half natural size.)	
185. <i>Notacanthus Bonapartii</i> , Risso	166
Drawing from Vaillant, Expéditions Scientifiques du Travailleur et du Talisman, Pl. xxvii, Fig. 2. (Reduced about one-third.)	
186. <i>Notacanthus phasganorus</i> , Goode	167
Drawing by H. L. Todd, from type No. 25972, U. S. N. M., collected by Capt. Briggs Gilpatrick, of the schooner <i>Gatherer</i> , from the stomach of a Ground-shark, on the Grand Bank of Newfoundland. (One-fourth natural size.)	

PLATE LI.

187. <i>Gigliolia Moseleyi</i> , Goode and Bean	169
Drawing from Günther, Challenger Report, Vol. xxii, Pl. LXI, Fig. C. (One-half natural size.)	
188. <i>Polyacanthonotus Rissoanus</i> (De Filippi and Veranyi), Günther	170
Drawing from Vaillant, Expéditions Scientifiques du Travailleur et du Talisman, Pl. xxvii.	
189. <i>Macdonaldia rostrata</i> , (Collett), Goode and Bean	171
Drawing by M. M. Smith, from type No. 35601, U. S. N. M., collected by the steamer <i>Albatross</i> , at station 2216, in N. lat. $39^{\circ} 17'$, W. lon. $70^{\circ} 30' 30''$, at a depth of 963 fathoms.	
190. <i>Lipogenys Gillii</i> , Goode and Bean	173
Drawing by H. L. Todd, from No. 39212, U. S. N. M., collected by the steamer <i>Albatross</i> , at station 2712, in N. lat. $37^{\circ} 46' 30''$, W. lon. $73^{\circ} 56' 30''$, at a depth of 865 fathoms. (About one-half natural size.)	

PLATE LII.

	Text page.
191A. B. <i>Notacanthus analis</i> , Gill	165
Drawings by A. H. Baldwin, from No. 37856, U. S. N. M., collected by the steamer <i>Albatross</i> , at station 2677, in N. lat. 32° 39', W. lon. 76° 50' 30", at a depth of 478 fathoms.	
192A. B. <i>Notacanthus sexspinis</i> , Richardson	163
Drawings from Günther, Challenger Report, Vol. XXII, Pl. LXI, Fig. a.	
193. <i>Gigliolia Moseleyi</i> , Goode and Bean	169
Drawing from Günther, Challenger Report, Vol. XXII, Pl. LXI, Fig. C.	
191A. B. <i>Polyacanthonotus Rissoanus</i> , (De Filippi and Verany), Günther	170
Drawings from Günther, Challenger Report, Vol. XXII, Pl. LXI.	
195A. B. <i>Macdonaldia rostrata</i> , (Collett), Goode and Bean	171
Drawings by A. H. Baldwin, from Nos. 35601-2, U. S. N. M., collected by the steamer <i>Albatross</i> , at station 2216, in N. lat. 39° 47', W. lon. 70° 30' 30", at a depth of 963 fathoms.	
196A. B. <i>Lipogenys Gillii</i> , Goode and Bean	173
Drawings by A. H. Baldwin, from No. 39212, U. S. N. M., collected by the steamer <i>Albatross</i> , at station 2742, in N. lat. 37° 46' 30", W. lon. 73° 56' 30", at a depth of 865 fathoms.	

PLATE LIII.

197. <i>Beryx splendens</i> , Lowe	176
Drawing by M. M. Smith, from a specimen collected by the steamer <i>Albatross</i> , at station 2415, in N. lat. 30° 44', W. lon. 79° 26', at a depth of 440 fathoms.	
198. <i>Melamphaes typhlops</i> , (Lowe), Günther	177
Drawing from Günther, Challenger Report, Vol. XXII, Pl. v, Fig. A.	
199. <i>Scopelogadus cocles</i> , Vaillant	182
Drawing from Vaillant, Expéditions Scientifiques du Travailleur et du Talisman, Pl. XXVI. (Slightly reduced.)	
200. <i>Poromitra capito</i> , Goode and Bean	183
Drawing by H. L. Todd, from a specimen collected by the steamer <i>Blake</i> , at station CCCXXVIII, in N. lat. 34° 28' 45", W. lon. 75° 22' 50", at a depth of 1,632 fathoms. (Two and two-sevenths natural size.)	
200A. <i>Plectromus crassiceps</i> , (Günther), Goode and Bean	180
Drawing from Günther, Challenger Report, Vol. XXII, Pl. VIII, Fig. B.	

PLATE LIV.

201. <i>Plectromus suborbitalis</i> , Gill	179
Drawing by H. L. Todd, from type No. 33271, U. S. N. M., collected by the steamer <i>Albatross</i> , at station 2036, in N. lat. 38° 52' 10", W. lon. 69° 24' 40", at a depth of 1,735 fathoms. (One and three-fifths natural size.)	
202. <i>Plectromus Beanii</i> , (Günther), Goode and Bean	179
Drawing by S. F. Denton, from No. 33378, U. S. N. M., collected by the steamer <i>Albatross</i> , at station 2075, in N. lat. 41° 40' 30", W. lon. 65° 35', at a depth of 855 fathoms.	
203. <i>Anoplogaster cornutus</i> , (Cuvier and Valenciennes), Günther	184
Drawing by H. L. Todd, from No. 33559, U. S. N. M., collected by the steamer <i>Albatross</i> , at station 2101, in N. lat. 39° 18' 30", W. lon. 68° 24', at a depth of 1,686 fathoms.	

PLATE LV.

204, 204A. <i>Caulolepis longidens</i> , Gill	185
Drawings by H. L. Todd, from No. 33270, U. S. N. M., collected by the steamer <i>Albatross</i> at station 2031, in N. lat. 39° 27' 10", W. lon. 69° 56' 20", at a depth of 1,316 fathoms.	
205. <i>Stephanoberyx Monæ</i> , Gill	186
Drawing by H. L. Todd, from No. 33115 U. S. N. M., collected by the steamer <i>Albatross</i> at station 2077, in N. lat. 40° 09' 10", W. lon. 66° 02' 20", at a depth of 1,255 fathoms. (About three times natural size.)	

PLATE LVI.

206. <i>Stephanoberyx Gillii</i> , Goode and Bean	187
Drawing by H. L. Todd, from type No. 33555, U. S. N. M., collected by the steamer <i>Albatross</i> at station 2099, in N. lat. 37° 12' 20", W. lon. 69° 39' 00", at a depth of 2,390 fathoms.	

	Text page.
207. <i>Trachichthys Darwinnii</i> , Johnson.....	188
Drawing from Steindachner and Döderlein, Denkschrift d. k. Akademie d. Wissenschaften Vol. XLVII, Pl. II.	
208. <i>Hoplostethus mediterraneus</i> , Cuvier and Valenciennes.....	189
Drawing by A. H. Baldwin, from No. 43624, U. S. N. M., collected by the steamer <i>Albatross</i> at station 2659, in N. lat. 28° 32', W. lon. 78° 42', at a depth of 509 fathoms.	

PLATE LVII.

209. <i>Thyrsitops violaceus</i> , Bean.....	195
Drawing by S. F. Denton, from type No. 39287, U. S. N. M., collected by Capt. Thomas Thompson, of the Gloucester fishing fleet, on Le Havo Bank, at a depth of 125 fathoms. (One-seventh natural size.)	
210. <i>Ruvettus pretiosus</i> , Cocco.....	196
Drawing by J. C. Van Hook, from a specimen collected by Capt. Thompson of the schooner <i>M. A. Baston</i> on Georges Bank.	
211. <i>Epinnula magistralis</i> , Poey.....	198
Drawing by H. L. Todd, from No. 37238, U. S. N. M., collected by the steamer <i>Albatross</i> in the Caribbean Sea. (About one-third natural size.)	
212. <i>Dicrotas parvipinnis</i> , Goode and Bean.....	201
Drawing by H. L. Todd, from the type specimen, collected by the steamer <i>Albatross</i> at station 2601, off Cape Hatteras, in N. lat. 34° 39' 15", W. lon. 75° 33' 30", at a depth of 107 fathoms.	

PLATE LVIII.

213. <i>Lepidopus caudatus</i> , (Euphrasen), White.....	203
Drawing by A. H. Baldwin, from No. 10115, U. S. N. M., collected by John Xantus, off Cape St. Lucas.	
214. <i>Evoxymetopon tæniatus</i> , Poey.....	204
Drawing by H. L. Todd, from No. 5735, U. S. N. M., collected by Prof. Felipe Poey at Havana, Cuba. (About two-ninths natural size.)	
215. <i>Benthodesmus atlanticus</i> , Goode and Bean.....	205
Drawing by H. L. Todd, from type No. 29116, U. S. N. M., taken from the stomach of a halibut, by Capt. R. Morrison, of the schooner <i>Laura Nelson</i> , on the west edge of the Grand Bank of Newfoundland, in 80 fathoms. (About one-third natural size.)	

PLATE LIX.

216. <i>Aphanopus carbo</i> , Lowe.....	207
Outline from Günther, Challenger Report, Vol. XXII, Pl. VII, Fig. A.	
217. <i>Trichiurus lepturus</i> , Linnaeus.....	208
Drawing by H. L. Todd, from No. 18028, U. S. N. M., collected by Dr. Janeway, U. S. Navy, at St. Augustine, Fla.	
218. <i>Pteraclis carolinus</i> , Cuvier and Valenciennes.....	212
Drawing by H. L. Todd, from No. 37861, U. S. N. M., collected by the steamer <i>Albatross</i> at station 2660, in N. lat. 28° 40' 00", W. lon. 78° 46' 00", at a depth of 504 fathoms. (Enlarged one-half.)	

PLATE LX.

219. <i>Coryphæna hippurus</i> , Linnaeus (old male).....	209
Drawing by H. L. Todd, from No. 16182, U. S. N. M., obtained in Fulton Market, New York City, by E. G. Blackford.	
220. <i>Coryphæna hippurus</i> , Linnaeus (young).....	209
Drawing by H. L. Todd, from No. 16184, U. S. N. M., obtained in the Fulton Market, New York City, by E. G. Blackford.	
220.A, B. <i>Coryphæna hippurus</i> , Linnaeus.....	209
Sketches from Lütken, Spolia Atlantica, I, p. 486.	

PLATE LXI.

221. <i>Grammicolepis brachiusculus</i> , Poey.....	218
Copied from a drawing by Shufeldt, Journal of Morphology, Vol. II. (One-third natural size.)	

	Text page.
222. <i>Centrolophus pompilus</i> , (Gmelin), Cuvier and Valenciennes.....	214
Drawing by S. F. Denton, from a specimen obtained at Dennis, Mass., by Vinal N. Edwards. (About two-thirds natural size.)	
223. <i>Schedophilus medusophagus</i> , Cocco	214
Drawing from Günther, Transactions of the Zoölogical Society of London, Vol. XI, Pl. LXVII.	
PLATE LXII.	
224. <i>Acosteus enigmaticus</i> , Lockington	215
Drawing by Günther, Challenger Report, Vol. XXII, Pl. XLIV. (Slightly reduced.)	
225. <i>Acrotus Willoughbyi</i> , Bean.....	217
Drawing by S. F. Denton, from No. 39310, U. S. N. M., collected off the coast of Washington, by Charles Willoughby. (About one-ninth natural size.)	
226. <i>Ichthyos Lockingtonii</i> , Jordan and Gilbert.....	216
Drawing by A. H. Baldwin, from No. 27397, U. S. N. M., collected off the coast of Washington. (Slightly reduced.)	
PLATE LXIII.	
227. <i>Nomeus Gronovii</i> , (Gmelin), Günther.....	220
Drawing by H. L. Todd, from a specimen collected by the steamer <i>Albatross</i> at station 2647, in N. lat. 25° 48' 00", W. lon. 80° 04' 00", at a depth of 85 fathoms. (Enlarged one-third.)	
228. <i>Psenes pellucidus</i> , Lütken.....	221
Drawing by M. M. Smith, from No. 35115, U. S. N. M., collected by the steamer <i>Albatross</i> at station 2171, in N. lat. 37° 59' 30", W. lon. 73° 48' 40", at a depth of 441 fathoms.	
229. <i>Psenes maculatus</i> , Lütken.....	221
Drawing by H. L. Todd, from No. 39329, U. S. N. M., collected by the steamer <i>Albatross</i> at sta- tion 2628, in N. lat. 32° 24', W. lon. 76° 55' 30", at a depth of 528 fathoms. (Nearly twice natural size.)	
PLATE LXIV.	
230. <i>Luvarus imperialis</i> , Rafinesque.....	222
Outline from Day, Fishes of Great Britain and Ireland, Pl. XLIII.	
231. <i>Glossamia pandionis</i> , Goode and Bean.....	231
Drawn by H. L. Todd, from type No. 26628, U. S. N. M., collected by the steamer <i>Fish Hawk</i> at station 897, in N. lat. 37° 25', W. lon. 74° 18', at a depth of 157½ fathoms. (Enlarged about one-fourth.)	
232. <i>Verilus sordidus</i> , Poey.....	240
Drawing by A. H. Baldwin, from No. 12565, U. S. N. M., collected by Prof. Felipe Poey, off Cuba. (Slightly less than one-half natural size.)	
PLATE LXV.	
233, 233A, B. <i>Cyttus hololepis</i> , Goode and Bean.....	225
Drawings by H. L. Todd, from type No. 39296, U. S. N. M., collected by the steamer <i>Albatross</i> at station 2358, in N. lat. 20° 19', W. lon. 87° 03' 30", at a depth of 220 fathoms. (Enlarged nearly one-half.)	
234. <i>Diretmus argenteus</i> , Johnson.....	211
Drawing from Johnson, Proceedings of the Zoölogical Society of London, Pl. XXXVI.	
235. <i>Antigonia capros</i> , Lowe.....	229
Drawings from Temminck and Schlegel, Fauna Japonica, Pl. XLII.	
PLATE LXVI.	
236. <i>Epigonus occidentalis</i> , Goode and Bean.....	233
Drawing by H. L. Todd, from the type specimen, collected by the steamer <i>Blake</i> at station LIV, off Barbadoes, in 237 fathoms. (Natural size.)	
237. <i>Hypoclydonia bella</i> , Goode and Bean.....	236
Drawing by S. F. Denton, from No. 39338, U. S. N. M., collected by the steamer <i>Albatross</i> at station 2126, in N. lat. 36° 01' 30", W. lon. 74° 47' 30", at a depth of 93 fathoms. (About one and two-thirds natural size.)	
238. <i>Polyprion americanum</i> , (Schneider), Jordan.....	238
Drawing by H. L. Todd, from a specimen collected by the U. S. Fish Commission, on the Grand Bank.	

- | | |
|---|-----------|
| | Text page |
| 239, 240. <i>Pseudopriacanthus altus</i> , Gill | 242 |
| Drawings by H. L. Todd, from a specimen collected by the steamer <i>Albatross</i> at station 2606, in N. lat. $34^{\circ} 35' 15''$, W. lon. $75^{\circ} 52' 00''$, at a depth of 25 fathoms. (No. 239, eight times natural size; No. 240, four times.) | |

PLATE LXVII.

- | | |
|---|-----|
| 241. <i>Polymixia nobilis</i> , Lowe | 243 |
| Drawing from Günther, Challenger Report, Vol. xxii, Pl. i, Fig. B. | |
| 242. <i>Scorpæna cristulata</i> , Goode and Bean | 246 |
| Drawing by H. L. Todd, from type No. 39326, U. S. N. M., collected by the steamer <i>Albatross</i> at station 2415, in N. lat. $30^{\circ} 44'$, W. lon. $79^{\circ} 26'$, at a depth of 440 fathoms. | |
| 243. <i>Scorpæna Agassizii</i> , Goode and Bean | 247 |
| Drawing by M. M. Smith, from the type specimen collected by the steamer <i>Blake</i> at station cclix, in N. lat. $23^{\circ} 13'$, W. lon. $74^{\circ} 52'$, at a depth of 80 fathoms. | |

PLATE LXVIII.

- | | |
|--|-----|
| 244. <i>Helicolenus maderensis</i> , Goode and Bean | 250 |
| Drawing by H. L. Todd, from No. 26627, U. S. N. M., collected by the steamer <i>Fish Hawk</i> at station 897, in N. lat. $37^{\circ} 25'$, W. lon. $74^{\circ} 18'$, at a depth of $157\frac{1}{2}$ fathoms. (Slightly reduced.) | |
| 245. <i>Pontinus Rathbuni</i> , Goode and Bean | 255 |
| Drawing by A. H. Baldwin, from No. 39526, U. S. N. M., collected by the steamer <i>Albatross</i> at station 2298, in N. lat. $35^{\circ} 39'$, W. lon. $74^{\circ} 52'$, at a depth of 80 fathoms. | |
| 246. <i>Pontinus longispinis</i> , Goode and Bean | 258 |
| Drawing by H. L. Todd, from type No. 39322, U. S. N. M., collected by the steamer <i>Albatross</i> at station 2102, in N. lat. $28^{\circ} 36'$, W. lon. $85^{\circ} 33' 30''$, at a depth of 111 fathoms. | |

PLATE LXIX.

- | | |
|---|-----|
| 247. <i>Pontinus macrolepis</i> , Goode and Bean | 257 |
| Drawing by A. H. Baldwin, from a specimen collected by the steamer <i>Blake</i> at station civ, off Barbadoes, at a depth of 500 fathoms. | |
| 248. <i>Sebastes marinus</i> , (Linnaeus), White | 260 |
| Drawing by H. L. Todd, from No. 10442, U. S. N. M., collected at Eastport, Me. | |

PLATE LXX.

- | | |
|---|-----|
| 249. <i>Setarches parmatius</i> , Goode | 264 |
| Drawing by H. L. Todd, from type No. 26084, U. S. N. M., collected by the steamer <i>Fish Hawk</i> at station 876, off Martha's Vineyard, in N. lat. $39^{\circ} 57' 00''$, W. lon. $70^{\circ} 56' 00''$, at a depth of 120 fathoms. (Twice natural size.) | |
| 250. <i>Eumicrotremus spinosus</i> , (Müller), Gill | 272 |
| Drawing by H. L. Todd, from a specimen collected off Half Way Rock, Salem, Mass., at a depth of 35 fathoms. (About three times natural size.) | |
| 251, 251A, B. <i>Careproctus ranula</i> , Goode and Bean | 275 |
| Drawings by H. L. Todd, from No. 22310, U. S. N. M., collected by the steamer <i>Speedwell</i> at station 117, off the mouth of Halifax Harbor. (Little less than twice natural size.) | |
| 252. <i>Monomitra liparina</i> , Goode | 278 |
| Drawn by H. L. Todd, from type No. 26184, U. S. N. M., collected by the steamer <i>Fish Hawk</i> at station 891, in N. lat. $39^{\circ} 46'$, W. lon. $71^{\circ} 10'$, at a depth of 480 fathoms. | |

PLATE LXXI.

- | | |
|---|-----|
| 253. <i>Paraliparis Copei</i> , Goode and Bean | 279 |
| drawing by H. L. Todd, from No. 35637, U. S. N. M., collected by the steamer <i>Albatross</i> at station 2232, in N. lat. $39^{\circ} 12' 17''$, W. lon. $72^{\circ} 09' 30''$, at a depth of 520 fathoms. (Slightly reduced.) | |
| 254. <i>Gymnolycodes Edwardsi</i> , Vaillant | 281 |
| Drawing from Vaillant, Expéditions Scientifiques du Travailleur et du Talisman, Pl. xxvi. | |
| 255. <i>Artediellus uncinatus</i> , (Reinhardt), Jordan | 267 |
| Drawing by A. H. Baldwin, from a specimen collected by the steamer <i>Albatross</i> at station 2177, in N. lat. $44^{\circ} 29' 30''$, W. lon. $57^{\circ} 11' 15''$, at a depth of 111 fathoms. (About two-and-a-half times natural size.) | |

- | | |
|---|------------|
| | Text page. |
| 256. Triglops Pingelii , Reinhardt..... | 269 |
| Drawing by H. L. Todd, from a specimen collected by the steamer <i>Speedwell</i> at station 117, 8 miles off Chebucto, at a depth of 52 fathoms. (Enlarged about one-half.) | |

PLATE LXXII.

- | | |
|---|-----|
| 257. Cottunculus microps , Collett..... | 269 |
| Drawing by H. L. Todd, from No. 26087, U. S. N. M., collected by the steamer <i>Fish Hawk</i> at station 880, in N. lat. $38^{\circ} 18' 30''$, W. lon. $70^{\circ} 51'$, at a depth of 252½ fathoms. (Natural size.) | |
| 258. Cottunculus Thomsonii , Günther..... | 270 |
| Drawing by H. L. Todd, from No. 37386, U. S. N. M., collected by the steamer <i>Albatross</i> at station 2584, in N. lat. $39^{\circ} 05' 30''$, W. lon. $72^{\circ} 23' 20''$, at a depth of 541 fathoms. (Seven-twelfths natural size.) | |
| 259. Podothecus decagonus , (Schneider), Jordan..... | 282 |
| Drawing from Collett, Norsk. Nordhavs Expedition, Pl. II, Fig. 11. | |
| 260. Aspidophoroides monopterygius , (Bloch), Goode and Bean..... | 283 |
| Drawing by H. L. Todd, from No. 24761, U. S. N. M., collected by the steamer <i>Speedwell</i> at Sandwich Point, Halifax, in 18 fathoms. (Enlarged about one-half.) | |

PLATE LXXIII.

- | | |
|---|-----|
| 261A, B. Cottunculus microps , Collett..... | 269 |
| Drawing by H. L. Todd, from No. 26087, U. S. N. M., collected by the steamer <i>Fish Hawk</i> at station 880, in N. lat. $38^{\circ} 18' 30''$, W. lon. $70^{\circ} 51'$, at a depth of 252½ fathoms. (Natural size.) | |
| 262A, B. Cottunculus Thomsonii , Günther..... | 270 |
| Drawings by H. L. Todd, from No. 37386, U. S. N. M., collected by the steamer <i>Albatross</i> at station 2584, in N. lat. $39^{\circ} 05' 30''$, W. lon. $72^{\circ} 23' 20''$, at a depth of 541 fathoms. (Natural size.) | |

PLATE LXXIV.

- | | |
|--|-----|
| 263, 263A, B. Hypsicometes gobioides , Goode..... | 290 |
| Drawings by A. H. Baldwin, from a specimen collected by the steamer <i>Albatross</i> at station 2377, in N. lat. $29^{\circ} 07' 30''$, W. lon. $88^{\circ} 08'$, at a depth of 210 fathoms. | |
| 264, 264A. Chiasmodon niger , Johnson..... | 292 |
| Drawings by H. L. Todd, from No. 25633, U. S. N. M., collected at the surface by Capt. Thomas F. Hodgdon of the schooner <i>Bessie W. Somes</i> , on Le Have Bank. | |

PLATE LXXV.

- | | |
|--|-----|
| 265. Lopholatilus chamæleonticeps , Goode and Bean..... | 284 |
| Drawing by H. L. Todd, from No. 22899, U. S. N. M., collected by Capt. Kirby, 80 miles south by east of No Man's Land. | |

PLATE LXXVI.

- | | |
|---|-----|
| 266. Pseudoscopelus scriptus , Lütken..... | 292 |
| Drawing from Lütken, Spolia Atlantica, Pl. I, Fig. 3. (About three times natural size.) | |
| 267. Porichthys porosissimus , (Cuvier and Valenciennes), Günther..... | 294 |
| Outline by A. H. Baldwin, from a specimen collected by the steamer <i>Albatross</i> at station 2121, in N. lat. $10^{\circ} 37' 40''$, W. lon. $61^{\circ} 42' 40''$ at a depth of 34 fathoms. | |
| 268, 268A, B. Callionymus himantophorus , Goode and Bean..... | 296 |
| Drawings by H. L. Todd, from a specimen collected by the steamer <i>Blake</i> at station XXX, off Barbados, in 209 fathoms. (Natural size.) | |

PLATE LXXVII.

- | | |
|--|-----|
| 269. Anarrhichas lupus , Linnaeus..... | 299 |
| Drawing by H. L. Todd, from No. 21816, U. S. N. M., collected by Capt. John Gourville, of the Gloucester fishing fleet, on Georges Bank. | |
| 270. Anarrhichas minor , Olafsen..... | 301 |
| Drawing by H. L. Todd, from No. 24618, U. S. N. M., collected by Capt. R. H. Hurlbert, in N. lat. $42^{\circ} 27'$, W. lon. $64^{\circ} 20''$. | |

271. <i>Anarrhichas latifrons</i> , Steenstrup and Hallgrímsson	Text page. 301
Drawing by H. L. Todd, from No. 21373, U. S. N. M., collected by Capt. Joseph W. Collins, of the schooner <i>Marion</i> , in N. lat. 43° 56', W. lon. 59° 04'. (About one-fourth natural size.)	

PLATE LXXVIII.

272. <i>Lycodes Esmarkii</i> , Collett.....	303
Drawing by H. L. Todd, from No. 21991, U. S. N. M., collected by Capt. Z. Hawkins and crew, of the schooner <i>Gwendolen</i> , on Le Ilave Bank, in 400 fathoms. (About two-sevenths natural size.)	
273. <i>Lycodes reticulatus</i> , Reinhardt	305
Drawing by H. L. Todd, collected by Capt. R. Markeson and crew, of the Gloucester fishing fleet, southwest of Banquereux, in 300 fathoms.	
274. <i>Lycodes frigidus</i> , Collett	305
Drawing by H. L. Todd, from No. 32995, U. S. N. M., collected by the steamer <i>Albatross</i> at station 2018, in N. lat. 37° 12' 22", W. lon. 74° 20' 04", at a depth of 788 fathoms. (About two-fifths natural size.)	
275. <i>Lycodes mucosus</i> , Richardson.....	306
Drawing by H. L. Todd, from No. 16930, U. S. N. M., collected in Cumberland Gulf, by W. A. Mintzer. (About two-fifths natural size.)	

PLATE LXXIX.

276. <i>Lycodes zoarchus</i> , Goode and Bean	308
Drawing by S. F. Denton, from type No. 39298, U. S. N. M., collected by steamer <i>Albatross</i> , off Nova Scotia in N. lat. 44° 46' 30", W. lon. 59° 55' 45", at a depth of 130 fathoms.	
276A. <i>Lycodes zoarchus</i> , Goode and Bean.....	308
Drawing by S. F. Denton, from No. 39299, U. S. N. M., collected by the steamer <i>Albatross</i> at station 2486, in N. lat. 44° 26', W. lon. 57° 11' 15", at a depth of 190 fathoms.	
277, 277A. <i>Lycenchelys Verrillii</i> , Goode and Bean	309
Drawings by H. L. Todd, from No. 21015, U. S. N. M., collected by the U. S. Fish Commission, 27 miles southwest of Chebucto.	

PLATE LXXX.

278. <i>Lycodes perspicillum</i> , Kröyer	307
Drawing by H. L. Todd, from No. 39336, U. S. N. M., collected by steamer <i>Albatross</i> at station 2456, in N. lat. 47° 29', W. lon. 52° 18', at a depth of 86 fathoms. (Twice natural size.)	
278A. <i>Lycodes perspicillum</i> , Kröyer	307
Drawing by S. F. Denton, from No. 39337, U. S. N. M., collected by the steamer <i>Albatross</i> at station 2491, in N. lat. 45° 25' 30", W. lon. 58° 35' 15", at a depth of 59 fathoms. (Nearly four times natural size.)	
279. <i>Lycenchelys paxillus</i> , Goode and Bean.....	311
Drawing by H. L. Todd, from No. 22177, U. S. N. M., collected by Capt. Joseph Collins, of the Gloucester fishing fleet, in N. lat. 42° 48', W. lon. 63° 07'. (About one-half natural size.)	
279A. <i>Lycenchelys paxillus</i> , Goode and Bean.....	311
Drawing by H. L. Todd, from a specimen collected by the steamer <i>Blake</i> at station CCCIX, in N. lat. 40° 11' 40", W. lon. 68° 22', at depth of 301 fathoms.	
280. <i>Lycodonus mirabilis</i> , Goode and Bean.....	312
Drawing by S. F. Denton, from No. 39207, U. S. N. M., collected by the steamer <i>Albatross</i> at station 2742, in N. lat. 37° 46' 30", W. lon. 73° 56' 30", at a depth of 865 fathoms.	

PLATE LXXXI.

281A, B. <i>Lycodes reticulatus</i> , Reinhardt.....	305
Drawing by H. L. Todd, from a specimen collected by Capt. R. Markeson, southwest of Banquereux, in 300 fathoms. (One-half natural size.)	
282. <i>Lycenchelys paxillus</i> , Goode and Bean.....	311
Drawing by H. L. Todd, from No. 22177, U. S. N. M., collected by Capt. Joseph W. Collins of the Gloucester fishing fleet, in N. lat. 42° 48', W. lon. 63° 07'. (Natural size.)	

	Text page.
283A. B. <i>Lycodes mucosus</i> , Richardson	306
Drawings by H. L. Todd, from No. 16930, U. S. N. M., collected by W. A. Mintzer, in Cumberland Gulf. (Three-fourths natural size.)	
283C. <i>Lycodes zoarchus</i> , Goode and Bean	308
Drawing by H. L. Todd, from type No. 39298, U. S. N. M., collected by the steamer <i>Albatross</i> , off Nova Scotia, in N. lat. 44° 46' 30", W. lon. 59° 55' 45", at a depth of 130 fathoms.	

PLATE LXXXII.

284. <i>Melanostigma gelatinosum</i> , Günther	314
Drawing by H. L. Todd, from No. 28853, U. S. N. M., collected by the steamer <i>Fish Hawk</i> at station 952, in N. lat. 39° 55', W. lon. 70° 28', at a depth of 396 fathoms. (Enlarged one-half.)	
285. <i>Dicromita Agassizii</i> , Goode and Bean	319
Drawing by H. L. Todd, from a specimen collected by the steamer <i>Blake</i> at station XCIII, off Granada, in 291 fathoms.	
285A. B. <i>Dicromita Agassizii</i> , Goode and Bean	319
Drawings by H. L. Todd, from type No. 26023, U. S. N. M., collected by the steamer <i>Fish Hawk</i> at station 869, in N. lat. 40° 02' 18", W. lon. 70° 23' 06", at a depth of 192 fathoms.	
286. <i>Bassozetus catena</i> , Goode and Bean	323
Drawing by S. F. Denton, from type No. 37311, U. S. N. M., collected by the steamer <i>Albatross</i> at station 2379, in N. lat. 28° 00' 15", W. lon. 87° 42', at a depth of 1,467 fathoms. (About seven-ninths natural size.)	
287. <i>Bassozetus normalis</i> , Gill	322
Drawing by H. L. Todd, from No. 49116, U. S. N. M., collected by the steamer <i>Albatross</i> at station 2380, in N. lat. 28° 02' 30", W. lon. 87° 43' 45", at a depth of 1,430 fathoms. (About seven-tenths natural size.)	
288. <i>Benthocometes robustus</i> , Goode and Bean	327
Drawing by H. L. Todd, from No. 29057, U. S. N. M., collected by the steamer <i>Fish Hawk</i> at station 1043, in N. lat. 38° 39', W. lon. 73° 11', at a depth of 130 fathoms. (One and three-fifths natural size.)	

PLATE LXXXIII.

289. <i>Neobythites Gilii</i> , Goode and Bean	325
Drawing by A. H. Baldwin, from type No. 37310, U. S. N. M., collected by the steamer <i>Albatross</i> at station 2402, in N. lat. 28° 36', W. lon. 85° 33', at a depth of 111 fathoms. (About twice natural size.)	
290. <i>Neobythites marginatus</i> , Goode and Bean	326
Drawing by H. L. Todd, from the type specimen collected by the steamer <i>Blake</i> at station LXXIX, off Barbadoes, in 209 fathoms. (One and three-fifths natural size.)	
291. <i>Bassogigas Gilii</i> , Goode and Bean	328
Drawing by A. H. Baldwin, from No. 39417, U. S. N. M., collected by the steamer <i>Albatross</i> at station 2684, off Cape Henlopen, Delaware, in N. lat. 39° 35', W. lon. 70° 51', at a depth of 1,106 fathoms. (Slightly more than one-third natural size.)	
292. <i>Porogadus miles</i> , Goode and Bean	334
Drawing by A. H. Baldwin, from type No. 35625, U. S. N. M., collected by the steamer <i>Albatross</i> at station 2230, in N. lat. 38° 27', W. lon. 73° 02', at a depth of 1,168 fathoms. (Enlarged about one-half.)	

PLATE LXXXIV.

293. <i>Penopus Macdonaldi</i> , Goode and Bean	336
Drawing by S. F. Denton, from type No. 39433, U. S. N. M., collected by the steamer <i>Albatross</i> at Station 2716, in N. lat. 38° 29' 30", W. lon. 70° 57', at a depth of 1,631 fathoms.	
294. <i>Barathrodemus manatinus</i> , Goode and Bean	332
Drawing by H. L. Todd, from the type specimen collected by the steamer <i>Blake</i> at station CCCXXV, in N. lat. 33° 35' 20", W. lon. 76°, at a depth of 617 fathoms. (Slightly enlarged.)	

	Text page.
295. <i>Nematonus pectoralis</i> , (Goode and Bean), Günther.....	333
Drawing by S. F. Denton, from type No. 37342, U. S. N. M., collected by the steamer <i>Albatross</i> at station 2380, in N. lat. 28° 02' 30", W. lon. 87° 43' 45", at a depth of 1,430 fathoms. (Slightly reduced.)	
296A. <i>Mixonus laticeps</i> , Günther.....	339
Drawing from Günther, Challenger Report, Vol. xxii, Pl. xxv, Fig. B. (Five and a half times natural size.)	
296B. <i>Tauredophidium Hextii</i> , Alcock	336
Outline from Alcock, Ann. & Mag. Nat. Hist., S. 6, Vol. vi, Pl. viii, Fig. f. (Nearly twice natural size.)	

PLATE LXXXV.

297, 297A, B. <i>Dicrolene intronigra</i> , Goode and Bean	338
Drawings by H. L. Todd, from a specimen collected by the steamer <i>Blake</i> in the Gulf Stream. (No. 297, three-fourths natural size; Nos. 297A, B, natural size.)	
298. <i>Barathronus bicolor</i> , Goode and Bean.....	341
Drawing by M. M. Smith, from the type specimen collected by the steamer <i>Blake</i> , at station LXXI, off Guadeloupe, in 769 fathoms.	
299. <i>Aphyonis mollis</i> , Goode and Bean.....	342
Drawing by H. L. Todd, from the type specimen, collected by the steamer <i>Blake</i> at station CCXXI, in N. lat. 24° 36', W. lon. 84° 05', at a depth of 955 fathoms.	

PLATE LXXXVI.

300. <i>Alexeterion parfaiti</i> , Vaillant.....	343
Outline from Vaillant, Expéditions Scientifiques du Travailleur et du Talisman, Pl. xxv (enlarged). (Four times natural size.)	
301. <i>Hepthocara simum</i> , Alcock	344
Outline from Alcock, Annals and Magazine of Natural History, 1892, Pl. xviii, Fig. 1. (Natural size.)	
302. <i>Lamprogrammus niger</i> , Alcock	344
Drawing from Alcock, Annals and Magazine of Natural History, 1891, viii, Fig. 2. (One-half natural size.)	
303. <i>Rhodichthys regina</i> , Collett.....	342
Outline from Collett, Norsk. Nordhavs Exped. Fiske, Pl. v.	

PLATE LXXXVII.

304. <i>Ptilichthys Goodei</i> , Bean.....	302
Drawing by H. L. Todd, from No. 26619, U. S. N. M., collected by Dall and Bean at the entrance to Port Levasheff, Unalaska, in 10 fathoms. (About twice natural size.)	
305. <i>Otophidium onostigma</i> , Jordan.....	345
Drawing by H. L. Todd, from No. 29670, U. S. N. M., taken from the stomach of a red snapper at Pensacola, Fla. (Nearly twice natural size.)	
306. <i>Leptophidium cervinum</i> , Goode and Bean	346
Drawing by H. L. Todd, from type No. 28764, U. S. N. M., collected by the steamer <i>Fish Hawk</i> at station 941, in N. lat. 40° 01', W. lon. 69° 56', at a depth of 76 fathoms. (About four-fifths natural size.)	
307. <i>Leptophidium profundorum</i> , Gill	347
Drawing by A. H. Baldwin, from a specimen collected by the steamer <i>Albatross</i> at station 2042, in N. lat. 39° 33', W. lon. 68° 26' 45", at a depth of 1,555 fathoms. (Slightly enlarged.)	
308. <i>Leptophidium marmoratum</i> , Goode and Bean	348
Drawing by M. M. Hildebrandt, from type No. 37237, U. S. N. M., collected by the steamer <i>Albatross</i> , at station 2350, in N. lat. 23° 10' 39", W. lon. 82° 20' 21", at a depth of 213 fathoms. (Slightly reduced.)	

PLATE LXXXVIII.

309. <i>Phycis regius</i> , (Walbaum), Jordan and Gilbert	357
Drawing by H. L. Todd, from No. 20923, U. S. N. M., obtained in New York City, by E. G. Blackford. (Two-thirds natural size.)	

	Text page.
310. <i>Phycis cirratus</i> , Goode and Bean	358
Drawing by H. L. Todd, from type No. 39059, U. S. N. M., collected by the steamer <i>Albatross</i> , at station 2376, in N. lat. 29° 03' 15", W. lon. 88° 16', at a depth of 324 fathoms.	
311. <i>Phycis chuss</i> , (Walbaum), Gill.....	359
Drawing by H. L. Todd, from No. 28707, U. S. N. M., collected by the steamer <i>Fish Hawk</i> , at station 918, in N. lat. 40° 20' 24", W. lon. 70° 41' 30", at a depth of 245 fathoms.	

PLATE LXXXIX.

312. <i>Phycis tenuis</i> , (Mitchill), De Kay.....	359
Drawing by H. L. Todd, from No. 21029, U. S. N. M., collected by the steamer <i>Speedwell</i> , at stations 73 and 74, in Halifax Harbor.	
313. <i>Phycis Chesteri</i> , Goode and Bean.....	360
Drawing by H. L. Todd, from No. 21840, U. S. N. M., collected by the steamer <i>Speedwell</i> , at station 174, off Cape Ann, in 140 fathoms. (About two-thirds natural size.)	
314. <i>Aprion macrophthalmus</i> , (Müller), Jordan and Swain.....	239
Drawing by M. M. Smith, from a specimen collected by the steamer <i>Blake</i> , at station CCLXI, in N. lat. 23° 13', W. lon. 89° 10', at a depth of 84 fathoms.	

PLATE XC.

315. <i>Læmonema barbatula</i> , Goode and Bean	362
Drawing by W. S. Haines, from No. 38331, U. S. N. M., collected by the steamer <i>Albatross</i> , at station 2397, in N. lat. 28° 42', W. lon. 86° 36', at a depth of 280 fathoms.	
315A. <i>Læmonema barbatula</i> , Goode and Bean.....	362
Drawing by H. L. Todd, from No. 29046, U. S. N. M., collected by the steamer <i>Fish Hawk</i> , at station 1045, in N. lat. 38° 35', W. lon. 73° 13', at a depth of 312 fathoms.	
316. <i>Læmonema melanurum</i> , Goode and Bean	363
Drawing by W. S. Haines, from type No. 38270, U. S. N. M., collected by the steamer <i>Albatross</i> at station 2415, in N. lat. 30° 44', W. lon. 79° 26', at a depth of 440 fathoms.	
317. <i>Molva vulgaris</i> , Fleming.....	364
Outline from Day, Fishes of Great Britain and Ireland, Pl. LXXXVI.	

PLATE XCI.

318. <i>Physiculus Kaupi</i> , Poey.....	366
Outline from Günther, Challenger Report, Vol. XXII, Pl. XVII.	
319. <i>Physiculus fulvus</i> , Bean.....	366
Drawing by H. L. Todd, from type No. 28766, U. S. N. M., collected by the steamer <i>Fish Hawk</i> , at station 941, in N. lat. 40° 01', W. lon. 69° 56', at a depth of 59 fathoms.	
320. <i>Uraleptus Maraldi</i> (Risso), Costa.....	367
Drawing by H. L. Todd, from a specimen collected by the steamer <i>Blake</i> , at station LXXXI, off Neris. (Nearly twice natural size.)	

PLATE XCII.

321. <i>Lotella maxillaris</i> , Bean.....	368
Drawing by H. L. Todd, from type No. 29832, U. S. N. M., collected by the steamer <i>Fish Hawk</i> , at station 952, in N. lat. 39° 55', W. lon. 70° 28', at a depth of 396 fathoms. (Nearly three times natural size.)	
322. <i>Mora mediterranea</i> , Risso.....	369
Outline from Bonaparte, Fauna Italica, Vol. III, Pl. 107.	
323. <i>Lepidion Rissoi</i> , Swainson.....	370
Outline from Vinciguerra, Ann. Mus. Civ. Genoa, Vol. XVIII, Pl. III.	

PLATE XCIII.

324. <i>Antimora viola</i> (Goode and Bean), Jordan.....	372
Drawing by H. L. Todd, from type No. 21837, U. S. N. M., collected by Capt. Joseph W. Collins, of the schooner <i>Marion</i> , on the edge of Le Have Bank. (Three-eighths natural size.)	

	Text page.
325. <i>Halargyreus brevipes</i> , Vaillant.....	375
Drawing from Vaillant, <i>Expeditions Scientifiques du Travailleur et du Talisman</i> , Pl. xxv, (About one-third natural size.)	
326. <i>Strinsia tinca</i> , Rafinesque.....	380
Outline from Bonaparte, <i>Fauna Italica</i> , Vol. III, Pl. 107.	

PLATE XCIV.

327. <i>Onos ensis</i> , (Reinhardt), Gill	381
Drawing by S. F. Denton, from No. 39321, U. S. N. M., collected by the steamer <i>Albatross</i> , at station 2550, in N. lat. $39^{\circ} 44' 30''$, W. lon. $70^{\circ} 30' 45''$, at a depth of 1,081 fathoms.	
328. <i>Rhinonemus cimbricus</i> , (Linnaeus), Goode and Bean	384
Drawing by H. L. Todd, from No. 2,721 U. S. N. M., collected in Chaleur Bay, by Edward Brown. (About three times natural size.)	
329. <i>Brosmius brosme</i> , (Müller), Günther.....	385
Drawing by H. L. Todd, from No. 29967, U. S. N. M., obtained in a Boston market, by W. A. Wilcox.	

PLATE XCV.

330. <i>Merlucius bilinearis</i> , (Mitchill), Gill.....	386
Drawing by H. L. Todd, from No. 21016, U. S. N. M., obtained by the U. S. Fish Commission in a Halifax market.	
331. <i>Bregmaceros atlanticus</i> , Goode and Bean	388
Drawing by H. L. Todd, from a specimen collected by the steamer <i>Blake</i> , at station cxiii, off Neris, in 305 fathoms. (Three and a half times natural size.)	
332, 333. <i>Cælorhynchus occa</i> , Goode and Bean	400
Drawing by H. L. Todd, from type No. 37331 U. S. N. M., collected by the steamer <i>Albatross</i> , at station 2396, in N. lat. $28^{\circ} 34'$, W. lon. $86^{\circ} 48'$, at a depth of 335 fathoms. (One-half natural size.)	

PLATE XCVI.

334. <i>Macrurus berglax</i> , Lacépède.....	391
Drawing by H. L. Todd, from No. 15608, U. S. N. M. (Gloucester donation 490), collected on the eastern part of Banquereux, at a depth of 200 fathoms, by Capt. David Campbell and crew of the schooner <i>Admiral</i> . (One-fourth natural size.)	
335. <i>Macrurus Bairdii</i> , Goode and Bean	393
Drawing by H. L. Todd, from No. 21014, U. S. N. M., taken 40 miles east of Thatcher's Island, at a depth of 160 fathoms. (About two-thirds natural size.)	
336. <i>Cælorhynchus carminatus</i> , Goode	398
Drawing by H. L. Todd, from No. 26187, U. S. N. M., collected by the steamer <i>Fish Hawk</i> , at sta- tion 893, off Martha's Vineyard, in 372 fathoms. (Seven-twelfths natural size.)	
337. <i>Cælorhynchus occa</i> , Goode and Bean	400
Drawing by H. L. Todd, from type No. 37334, U. S. N. M., collected by the steamer <i>Albatross</i> , at station 2396, in N. lat. $28^{\circ} 34'$, W. lon. $86^{\circ} 48'$, at a depth of 335 fathoms. (Seven-twelfths natural size.)	

PLATE XCVII.

338. <i>Cælorhynchus caribbæus</i> , Goode and Bean	401
Drawing by H. L. Todd, from type No. 37333, U. S. N. M., collected by the steamer <i>Albatross</i> , at station 2377, in the northern part of the Gulf of Mexico, in N. lat. $29^{\circ} 07' 30''$, W. lon. $88^{\circ} 08'$, at a depth of 210 fathoms. (About two-thirds natural size.)	
339. <i>Coryphænoides carapinus</i> , Goode and Bean	404
Drawing by H. L. Todd, from a specimen collected by the steamer <i>Blake</i> , at station cxxlii, in N. lat. $39^{\circ} 43'$, W. lon. $70^{\circ} 55' 25''$, at a depth of 1,002 fathoms.	
340. <i>Hymenoccephalus Goodei</i> , (Günther), Bean	407
Drawing by H. L. Todd, from a specimen collected by the steamer <i>Blake</i> , at station 56, in N. lat. $23^{\circ} 09'$, W. lon. $82^{\circ} 21' 30''$, at a depth of 175 fathoms. (Four-fifths natural size.)	
341. <i>Hymenoccephalus cavernosus</i> , Goode and Bean.....	408
Drawing by S. F. Denton, from type No. 37337, U. S. N. M., collected by the steamer <i>Albatross</i> , at station 2398, in N. lat. $28^{\circ} 45'$, W. lon. $86^{\circ} 26'$, at a depth of 227 fathoms. (Slightly enlarged.)	

PLATE XCVIII.

	Text page.
342. <i>Lionurus filicauda</i> , Günther	409
Outline from Günther, Challenger Report, Vol. XXII, Pl. XXXIV.	
343. <i>Trachonurus sulcatus</i> , Goode and Bean	410
Drawing by A. H. Baldwin, from type No. 37335, U. S. N. M., collected by the steamer <i>Albatross</i> , at station 2391, in N. lat. 28° 38' 30", W. lon. 87° 02', at a depth of 420 fathoms. (Slightly enlarged.)	
344. <i>Cetonurus globiceps</i> , Vaillant	411
Outline from Vaillant, Expéditions Scientifiques du Travailleur et du Talisman, Pl. xx, Fig. 1.	
345. <i>Chalinurus imula</i> , Goode and Bean	412
Drawing by H. L. Todd, from No. 39152 U. S. N. M., collected by the steamer <i>Albatross</i> , at station 2095, in N. lat. 39° 29', W. lon. 70° 58' 40", at a depth of 1,342 fathoms.	

PLATE XCIX.

345A. <i>Chalinura mediterranea</i> , Giglioli	525
Outline by Prof. H. H. Giglioli, from a specimen in the Central Collection of Italian Vertebrata, Royal Zoölogical Museum, Florence, Italy. (Slightly reduced.)	
346. <i>Nematonurus gigas</i> , (Vaillant), Goode and Bean	416
Outline from Günther, Challenger Report, Vol. XXII, Pl. LX.	
347. <i>Moseleya longifilis</i> , (Günther), Goode and Bean	417
Outline from Günther, Challenger Report, Vol. XXII, Pl. XXXV.	

PLATE C.

348. <i>Abyssicola macrochira</i> , (Günther), Goode and Bean	417
Outline from Günther, Challenger Report, Vol. XXII, Pl. XXIX, Fig. B.	
349. <i>Trachyrhynchus scabrus</i> , (Rafinesque), Goode and Bean	417
Outline from Günther, Challenger Report, Vol. XXII, Pl. XII, Fig. C.	
349A. <i>Macrurus longifilis</i> , Günther	417
Outline from Günther, Challenger Report, Vol. XXII, Pl. XXXV.	

PLATE CI.

350. <i>Macrurus Novæ-zelandiæ</i> , (Heeter), Günther	418
Outline from Heeter. Transactions of the New Zealand Institute, Vol. III, Pl. XVIII.	
351. <i>Steindachneria argentea</i> , Goode and Bean	419
Drawing by H. L. Todd, from type No. 37350, U. S. N. M., collected by the steamer <i>Albatross</i> , at station 2378, in N. lat. 39° 14' 30", W. lon. 88° 09' 30", at a depth of 68 fathoms. (About four-fifths natural size.)	
352. <i>Bathygadus favosus</i> , Goode and Bean	420
Drawing by H. L. Todd, from the type specimen collected by the steamer <i>Blake</i> , at station LXXX, off Martinique, in 472 fathoms. (About one-half natural size.)	
353, 354. <i>Cœlorhynchus carminatus</i> , Goode	398
Drawings by H. L. Todd, from No. 26187, U. S. N. M., collected by the steamer <i>Fish Hawk</i> , at station 893, off Marthas Vineyard, in 372 fathoms. (Natural size.)	

PLATE CII.

355A, B. <i>Limanda Beanii</i> , Goode	428
Drawings by H. L. Todd, from No. 26102, U. S. N. M., collected by the the steamer <i>Fish Hawk</i> , at stations 875, 876, off Marthas Vineyard, in 120 to 126 fathoms. (About four-fifths natural size.)	
355C, D. <i>Limanda Beanii</i> , Goode	428
Drawings by H. L. Todd, from a specimen collected by the steamer <i>Albatross</i> , at station 2401, in N. lat. 28° 38' 30", W. lon. 85° 52' 30", at a depth of 142 fathoms. (Enlarged about one-half.)	
356A. <i>Glyptocephalus cynoglossus</i> , (Linnaeus), Gill	430
Drawing by S. F. Denton, from No. 39487, U. S. N. M., collected by the steamer <i>Albatross</i> , at station 2552, in N. lat. 39° 47' 07", W. lon. 70° 35', at a depth of 721 fathoms. (Natural size.)	
356B. <i>Glyptocephalus cynoglossus</i> , (Linnaeus), Gill	430
Drawing by S. F. Denton, from a specimen collected by the steamer <i>Albatross</i> , at station 2543, in N. lat. 39° 58' 15", W. lon. 70° 42' 30", at a depth of 166 fathoms. (Natural size.)	

PLATE CIII.

Text page.

- 357A, B. *Monolene sessilicauda*, Goode..... 452
 Drawings by H. L. Todd, from No. 26120, U. S. N. M., collected by the steamer *Fish Hawk*, off Newport, R. I. (About five-sevenths natural size.)
358. *Monolene atrimana*, Goode and Bean..... 455
 Drawing by H. L. Todd, from the type specimen collected by the steamer *Blake*, at station XVI, off Barbados, in 288 fathoms. (About four-fifths natural size.)
359. *Monolene atrimana*, Goode and Bean..... 455
 Drawing by H. L. Todd, from No. 26005, U. S. N. M., collected by the steamer *Fish Hawk*, at stations 871 and 872, off Marthas Vineyard, in 86 to 115 fathoms. (Natural size.)

PLATE CIV.

360. *Etropus rimosus*, Goode and Bean..... 450
 Drawing by H. L. Todd, from type No. 37332, U. S. N. M., collected by the steamer *Albatross*, at station 2408, in N. lat. $28^{\circ} 28'$, W. lon. $81^{\circ} 25'$, at a depth of 21 fathoms. (Enlarged about one-half.)
361. *Etropus rimosus*, Goode and Bean..... 450
 Drawing by H. L. Todd, from a specimen collected by the steamer *Albatross* at station 2513, upon the surface, in N. lat. $39^{\circ} 58' 15''$, W. lon. $70^{\circ} 12' 30''$, at a depth of 166 fathoms. (Three times natural size.)
362. *Notosema dilecta*, Goode and Bean..... 437
 Drawing by H. L. Todd, from a specimen collected by the steamer *Albatross*, at the surface, at Station 2601, in N. lat. $34^{\circ} 39' 15''$, W. lon. $75^{\circ} 33' 30''$, at a depth of 107 fathoms. (Twice natural size.)

PLATE CV.

363. *Hippoglossus vulgaris*, Fleming..... 434
 Drawing by H. L. Todd, from No. 10139, U. S. N. M., collected by the U. F. Fish Commission, at Eastport, Me.
364. *Platysomatichthys hippoglossoides*, (Walbaum), Goode and Bean..... 435
 Drawing by H. L. Todd, from a specimen obtained in Fulton Market, New York City.

PLATE CVI.

- 365A, B. *Notosema dilecta*, Goode and Bean..... 437
 Drawings by H. L. Todd, from a specimen collected by the steamer *Blake*, at station CCXIII, off Charleston, S. C., in N. lat. $32^{\circ} 31' 50''$, W. lon. $78^{\circ} 15'$, at a depth of 75 fathoms. (Slightly reduced.)
- 366A, B. *Citharichthys arctifrons*, Goode..... 442
 Drawings by H. L. Todd, from a specimen collected by the steamer *Fish Hawk*, off Newport, R. I., in 115 to 155 fathoms. (Slightly enlarged.)

PLATE CVII.

367. *Hippoglossoides platessoides*, (Fabricius), Gill..... 438
 Drawing by H. L. Todd, from No. 21002, U. S. N. M., collected by the U. S. Fish Commission, on Le Have Bank.
368. *Cyclopsetta fimbriata*, Goode and Bean..... 451
 Drawing by H. L. Todd, from type No. 37330, U. S. N. M., collected by the steamer *Albatross*, at Station 2403, in N. lat. $28^{\circ} 42' 30''$, W. lon. $85^{\circ} 29'$, at a depth of 88 fathoms. (Seven-tenths natural size.)

PLATE CVIII.

- 369A B. *Citharichthys unicornis*, Goode..... 441
 Drawings by H. L. Todd, from type No. 26903, U. S. N. M., collected by the steamer *Fish Hawk*, at stations 870, 871, off Marthas Vineyard, in 115 to 155 fathoms. (Enlarged about one-half.)
370. *Citharichthys spilopterus*, Günther..... 447
 Drawing by H. L. Todd, from a specimen collected by the steamer *Blake*, at station CCXLIV, in N. lat. $23^{\circ} 13'$, W. lon. $89^{\circ} 10'$, at a depth of 81 fathoms. (Slightly reduced.)
371. *Scianectes macrophthalmus*, Alcock..... 440
 Copied from Alcock, Journal of the Asiatic Society of Bengal, Vol. LVIII, Pt. 2, Pl. XVI, Fig. 4.

PLATE CIX.

	Text page.
372. <i>Trichopsetta ventralis</i> , (Goode and Bean), Gill.....	440
Drawing by H. L. Todd, from No. 37372, U. S. N. M., collected by the steamer <i>Albatross</i> , at station 2378, in N. lat. 29° 13' 30", W. lon. 88° 09, 30", at depth of 68 fathoms. (Slightly enlarged.)	
373. <i>Citharichthys pætulus</i> , (Goode and Bean), Jordan and Gilbert.....	448
Drawing by H. L. Todd, from type No. 30180, U. S. N. M., collected by Silas Stearns, at Pensacola, Fla. (About one-half natural size.)	

PLATE CX.

374. <i>Aphoristia fasciata</i> , Goode and Bean.....	458
Drawing by H. L. Todd, from No. 37348, U. S. N. M., collected by the steamer <i>Albatross</i> , at Jamaica, West Indies.	
375. <i>Aphoristia nebulosa</i> , Goode and Bean.....	458
Drawing by H. L. Todd, from the type specimen, collected by the steamer <i>Blake</i> , at station cccxqi, in N. lat. 32° 07', W. lon. 78° 37' 30", at a depth of 229 fathoms.	
376. <i>Aphoristia marginata</i> , Goode and Bean.....	459
Drawing by H. L. Todd, from a specimen collected by the steamer <i>Albatross</i> , at station 2376, in N. lat. 29° 03' 15", W. lon. 88° 16', at a depth of 321 fathoms. (Slightly enlarged.)	
377. <i>Aphoristia pigra</i> , Goode and Bean.....	460
Drawing by H. L. Todd, from the type specimen, collected by the steamer <i>Blake</i> , at station xxiii, off St. Kitt's, West Indies, in 250 fathoms.	
378. <i>Aphoristia diomediana</i> , Goode and Bean.....	460
Drawing by H. L. Todd, from the type specimen, collected by the steamer <i>Albatross</i> , at station 2411, in N. lat. 25° 04' 30", W. lon. 82° 59' 15", at a depth of 26 fathoms. (About two-thirds natural size.)	
379. <i>Aphoristia pusilla</i> , Goode and Bean.....	461
Drawing by H. L. Todd, from No. 28778, U. S. N. M., collected by the steamer <i>Fish Hawk</i> , in N. lat. 40° 01', W. lon. 69° 56', off Marthas Vineyard, in 179 fathoms. (About seven-tenths natural size.)	

PLATE CXI.

380. <i>Prionotus militaris</i> , Goode and Bean.....	464
Drawing by H. L. Todd, from the type specimen, collected by the steamer <i>Albatross</i> , at station 2362, off Cape Catoche, Yucatan, in N. lat. 22° 08' 30", W. lon. 86° 53' 30", at a depth of 25 fathoms.	
381. <i>Prionotus egretta</i> , Goode and Bean.....	465
Drawing by M. M. Smith, from a specimen collected by the steamer <i>Blake</i> , at station LXIV, off Barbadoes, in 100 to 200 fathoms.	
382. <i>Prionotus alatus</i> , Goode and Bean.....	467
Drawing by H. L. Todd, from a specimen collected by the steamer <i>Blake</i> , off Charleston, S. C., in N. lat. 32° 31' 50", W. lon. 78° 45', at a depth of 75 fathoms.	

PLATE CXII.

383, 383B. <i>Prionotus trinitatis</i> , Goode and Bean.....	468
Drawings by H. L. Todd, from type No. 39348, U. S. N. M., collected by the steamer <i>Albatross</i> , at station 2120, off Trinidad, in N. lat. 11° 07', W. lon. 62° 14' 30", at a depth of 73 fathoms.	
384. <i>Prionotus militaris</i> , Goode and Bean.....	464
Drawing by H. L. Todd, from the type specimen, collected by the steamer <i>Albatross</i> , at Station 2362, off Cape Catoche, Yucatan, in N. lat. 22, ° 08' 30", W. lon. 86° 53' 30", at a depth of 25 fathoms.	

PLATE CXIII.

385, 385A, B. <i>Peristedion miniatum</i> , Goode.....	470
Drawings by H. L. Todd, from type No. 26023, U. S. N. M., collected by the steamer <i>Fish Hawk</i> , at station 869, in N. lat. 40° 02' 18", W. lon. 70° 23' 06", at a depth of 192 fathoms. (No. 385 reduced about one-half; Nos. 385A, B natural size.)	

PLATE CXIV.

	Text page.
386. <i>Peristedion longispatha</i> , Goode and Bean.....	472
Drawing by H. L. Todd, from the type specimen, collected by the steamer <i>Blake</i> , at station LVIII, off Havana, in 242 fathoms. (About seven-ninths natural size.)	
387. <i>Peristedion gracile</i> , Goode and Bean.....	473
Drawing by H. L. Todd, from the type specimen, collected by the steamer <i>Albatross</i> , at station 2401, in N. lat. 28° 38' 30", W. lon. 85° 52' 30", at a depth of 142 fathoms.	
388A, B. <i>Peristedion platycephalum</i> , Goode and Bean.....	471
Drawings by H. L. Todd, from the type specimen, collected by the steamer <i>Blake</i> , at station LX, off Barbados, in 123 fathoms. (Natural size.)	

PLATE CXV.

389. <i>Lophotes Cepedianus</i> , Giorna.....	349
Drawing from Temminck and Schlegel, Fauna Japonica, Pl. LXXI, Fig. 2.	
390. <i>Lophotes Capellei</i> , Temminck and Schlegel.....	351
Outline from Temminck and Schlegel, Fauna Japonica, Pl. LXXI.	
391. <i>Trachypterus iris</i> , (Gmelin), Cuvier and Valenciennes.....	477
Outline from Cuvier and Valenciennes, Histoire Naturelle des Poissons de la France, Pl. 297.	

PLATE CXVI.

392. <i>Trachypterus arcticus</i> , (Brünnich), Nilsson.....	479
Outline from Day, Fishes of Great Britain and Ireland, Vol. I, Pl. LXIII.	
393. <i>Stylephorus chordatus</i> , Shaw.....	482
Outline from Blainville, Journal de Physique, Vol. LXXXVI, Pl. 1.	
394. <i>Stylephorus chordatus</i> , Shaw.....	482
Outline from Shaw, Transactions of the Linnean Society of London, Vol. I, p. 90.	

PLATE CXVII.

395. <i>Regalecus glesne</i> , Ascanius.....	480
Outline from Day, Fishes of Great Britain and Ireland, Pl. 64.	
396. <i>Macrorhamphosus scolopax</i> , (Linnaeus), Goode and Bean.....	483
Drawing by H. L. Todd, from No. 28755, U. S. N. M., collected by the steamer <i>Fish Hawk</i> , at station 910, in N. lat. 39° 51', W. lon. 69° 51' 30", at a depth of 130 fathoms. (Enlarged one-fourth.)	
397. <i>Aulostoma longipes</i> , Vaillant.....	481
Outline from Vaillant, Expéditions Scientifiques du Travailleur et du Talisman, Pl. XXVII, Fig. 4. (Eight times natural size.)	
398. <i>Chaunax pictus</i> , Lowe.....	487
Drawing by H. L. Todd, from No. 26021, U. S. N. M., collected by the steamer <i>Fish Hawk</i> , at station 869, off Martha's Vineyard, in 192 fathoms. (Four times natural size.)	
399. <i>Ceratias Holbölli</i> , Kröyer.....	489
Drawing from Gaimard, Voy. Skand., Poissons, Pl. IX.	

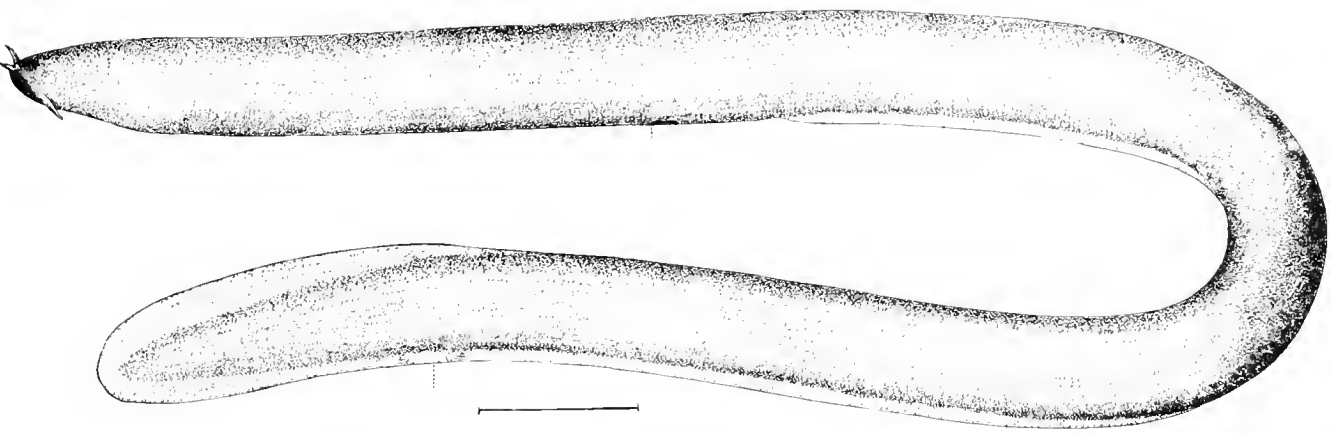
PLATE CXVIII.

400, 400A, B. <i>Lophius piscatorius</i> , Linnaeus.....	485
Drawings by S. F. Denton, from No. 39314, U. S. N. M., collected by the U. S. Fish Commission, 20 miles south of No Man's Land.	

PLATE CXIX.

401. <i>Mancalias Shufeldtii</i> , Gill.....	490
Drawing by H. L. Todd, from No. 33552, U. S. N. M., collected by the steamer <i>Albatross</i> , at station 2099, in N. lat. 37° 12' 20", W. lon. 69° 39', at a depth of 2,919 fathoms. (About two and a half times natural size.)	
402. <i>Cryptopsaras Couesii</i> , Gill.....	491
Drawing by H. L. Todd, from No. 33558, U. S. N. M., collected by the steamer <i>Albatross</i> , at station 2101, in N. lat. 38° 13' 30", W. lon. 68° 24', at a depth of 1,686 fathoms. (Three and three-fourths times natural size.)	

	Text page.
403. <i>Halientæa stellata</i> , Cuvier and Valenciennes.....	499
Outline from Temminck and Schlegel, <i>Fauna Japonica</i> , Pl. 82.	
404. <i>Paroneiroides glomerosus</i> , Alcock.....	493
Drawing from Alcock, <i>Annals and Magazine of Natural History</i> , Vol. II, Pl. IX, Fig. 6. (Very slightly reduced.)	
PLATE CXX.	
405. <i>Corynolophus Reinhardtii</i> , (Lütken), Gill.....	494
Drawing from Lütken, <i>Vidensk. Selsk. Skr. Naturvid. og Math. Aft.</i> , IV, Pl. 334.	
406. <i>Melanocetus Johnsonii</i> , Günther.....	494
Drawing by H. L. Todd, from No. 38055, U. S. N. M., collected by the steamer <i>Albatross</i> , at station 2149, in N. lat. 13° 01' 30", W. lon. 81° 25', at a depth of 992 fathoms.	
407. <i>Liocetus Murrayi</i> , Günther.....	495
Drawing from Günther, <i>Challenger Report</i> , Vol. XXII, Pl. XI.	
PLATE CXXI.	
408. <i>Limophryne lucifer</i> , Collett.....	496
Drawing from Collett, <i>Proceedings of the Zoölogical Society of London</i> , 1886, Pl. xv.	
409. <i>Caulophryne setosus</i> , Goode and Bean.....	496
Drawing by S. F. Denton, from type No. 39265, U. S. N. M., collected by the steamer <i>Albatross</i> , in N. lat. 39° 27', W. lon. 71° 15', at a depth of 1,276 fathoms. (Nearly three times natural size.)	
410. <i>Halientæa coccinea</i> , Alcock.....	500
Drawing from Alcock, <i>Annals and Magazine of Natural History</i> , Series 6, Vol. VIII, Pl. VIII.	
411. <i>Maithopsis luteus</i> , Alcock.....	529
Drawing from Alcock, <i>Annals and Magazine of Natural History</i> , Series 6, Vol. VIII, Pl. VIII.	
PLATE CXXII.	
412A, B. <i>Halientella lappa</i> , Goode and Bean.....	500
Drawings by H. L. Todd, from No. 31862, U. S. N. M., collected by the steamer <i>Fish Hawk</i> , at station 1151, in N. lat. 39° 58' 30", W. lon. 70° 37', at a depth of 125 fathoms.	
413. <i>Dibranchius atlanticus</i> , Peters.....	501
Drawings by H. L. Todd, from No. 26088, U. S. N. M., collected by the steamer <i>Fish Hawk</i> , at station 879, off Marthas Vineyard, in 225 fathoms. (No. 413A, natural size; No. 413B, enlarged one-third.)	
411A, B. <i>Halieutichthys aculeatus</i> , (Mitchill), Goode.....	504
Drawings by H. L. Todd, from No. 23552, U. S. N. M., collected at Key West, Fla., by J. W. Nelie. (Natural size.)	
PLATE CXXIII.	
415. <i>Bathyclupea argentea</i> , Goode and Bean.....	190
Drawing by A. H. Baldwin, from a specimen collected by the steamer <i>Blake</i> , at station XXXVII, off Neris, in 365 fathoms. (About one-half natural size.)	
416. <i>Schedophilopsis spinosus</i> , Steindachner.....	216
Drawing by A. H. Baldwin, from a specimen obtained at Astoria, Oregon, by Dr. Aug. C. Kinney. (Four-fifths natural size.)	
417. <i>Tetragonurus Cuvieri</i> , Risso.....	230
Drawing by M. M. Hildebrandt, from No. 4436, U. S. N. M., collected at Woods Holl, Mass., by Vinal N. Edwards. (About two and a half times natural size.)	



1



2

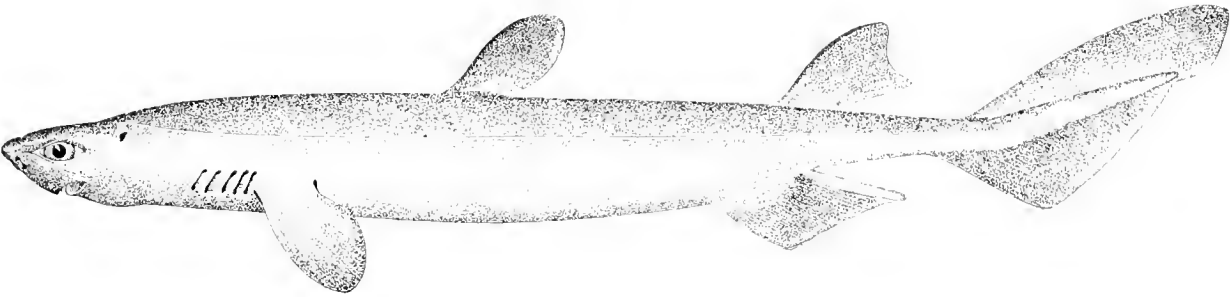


3

1. MYXINE GLUTINOSA. (p. 2.)

2. MYXINE AUSTRALIS. (p. 3.)

3. PETROMYZON MARINUS. (p. 4.)



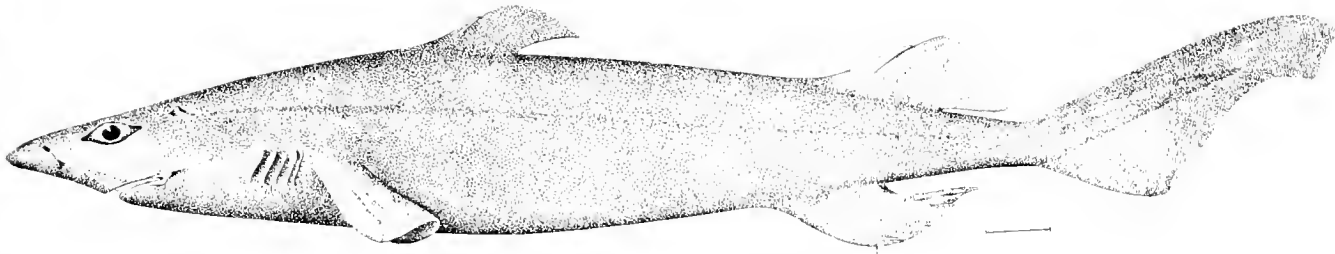
4



5



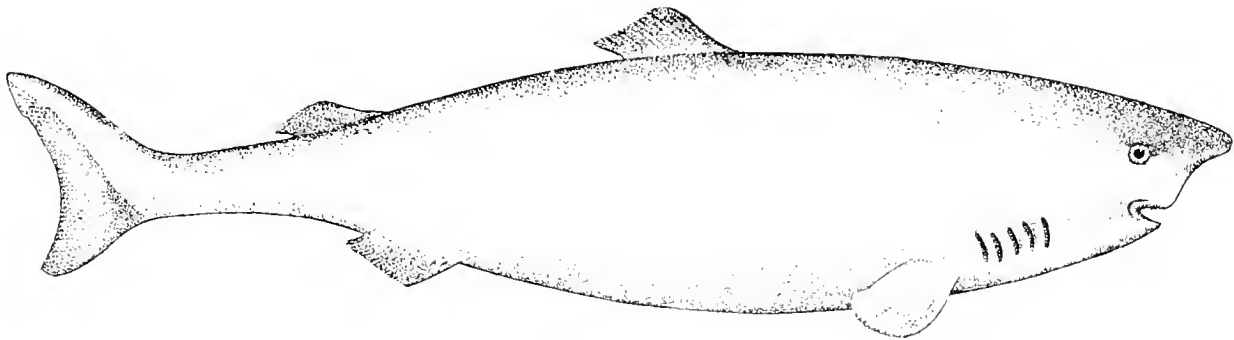
6



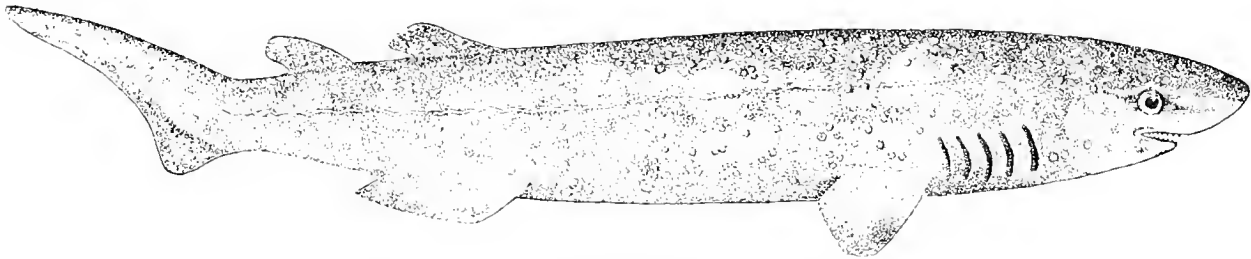
7

4. SCYMNORHYNCHUS LICHA (p. 7.)
6. SCYLLIORHYNCHUS REUTER. (p. 16.)

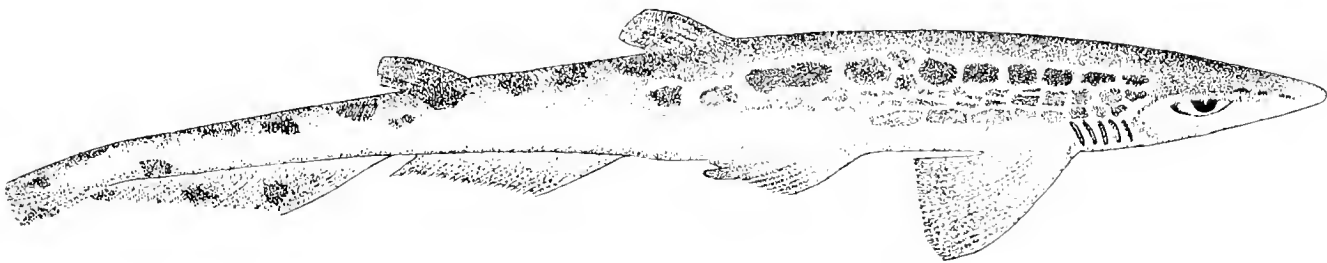
5. ETMOPTERUS PUSILLUS (p. 10.)
7. CENTROSCYLLIUM FABRICII (p. 11.)



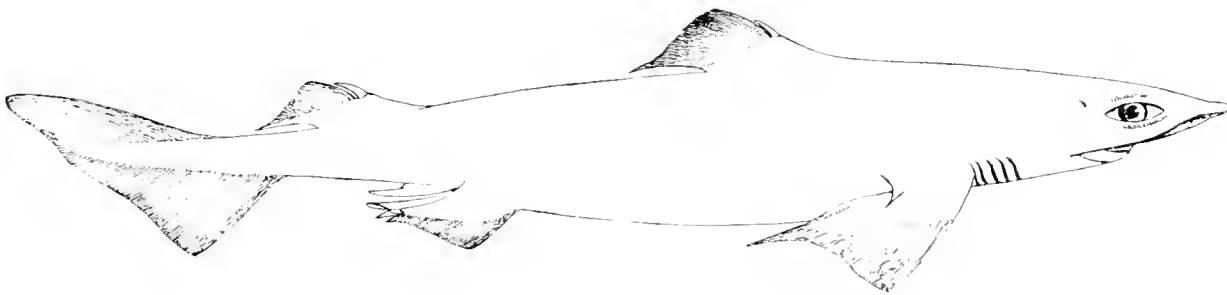
8



9



10



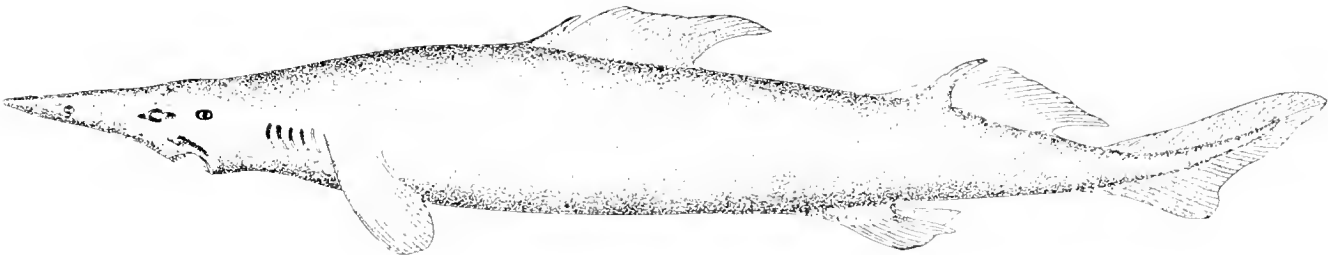
11

8. *SOMNIOSUS MICROCEPHALUS*. (p. 7.)

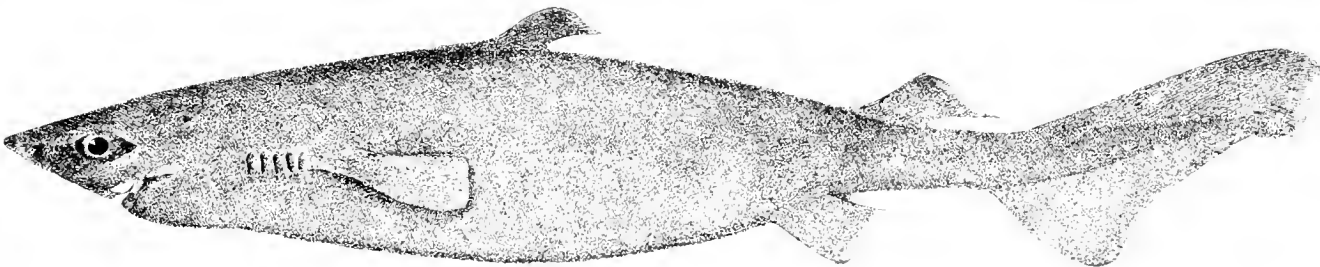
10. *PRESTURUS MELASTOMUS*. (p. 20.)

9. *ECHINORHINUS SPINOSUS*. (p. 8.)

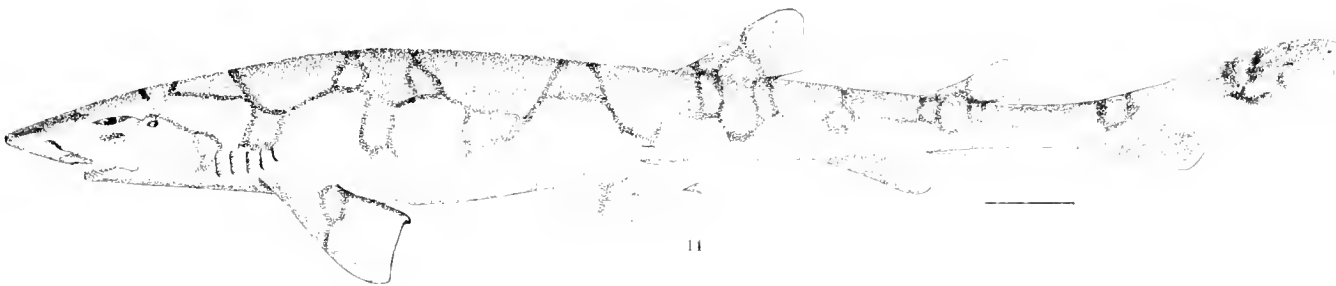
11. *CENTROPHORUS GRANULOSUS*. (p. 12.)



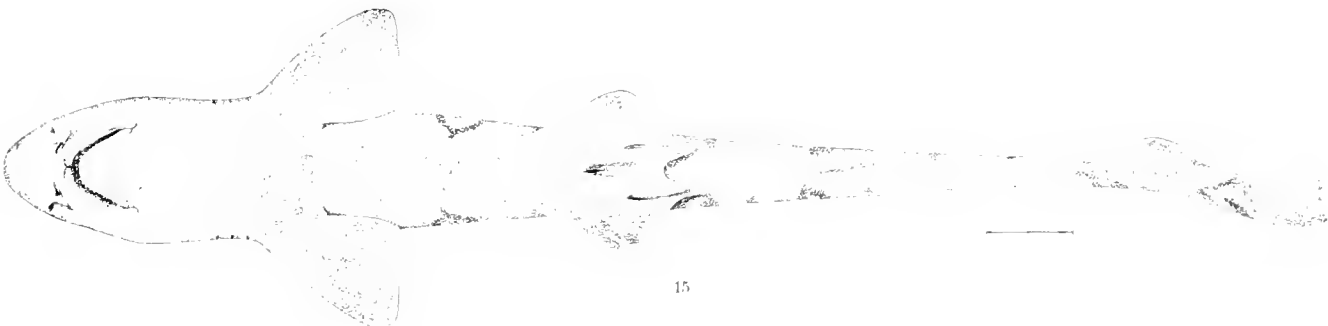
12



13



14

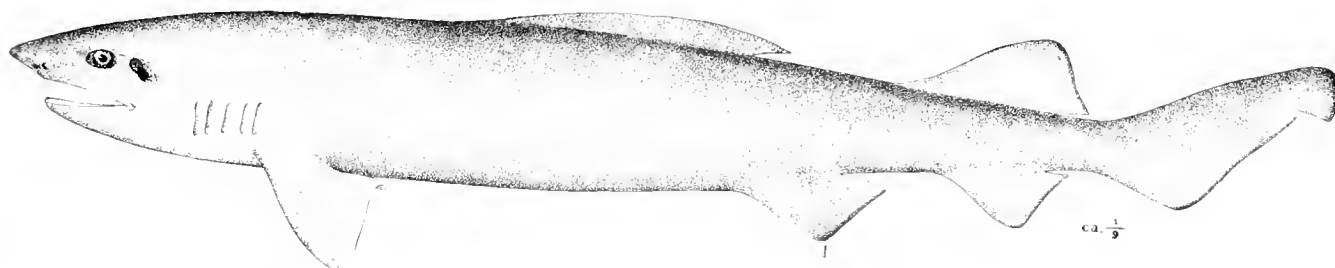


15

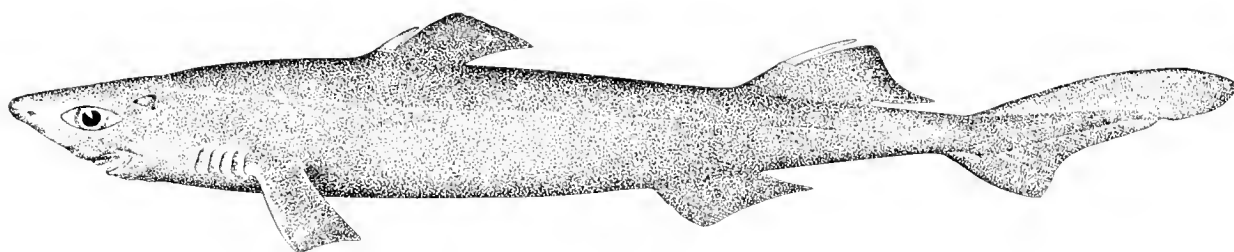
12. SCYMNODON RINGENS. (p. 11.) 13. CENTROSCYMNUS COLOLEPIS. (p. 11.) 14, 15. SCYLLORHYNCHUS RETIFER. (p. 11.)



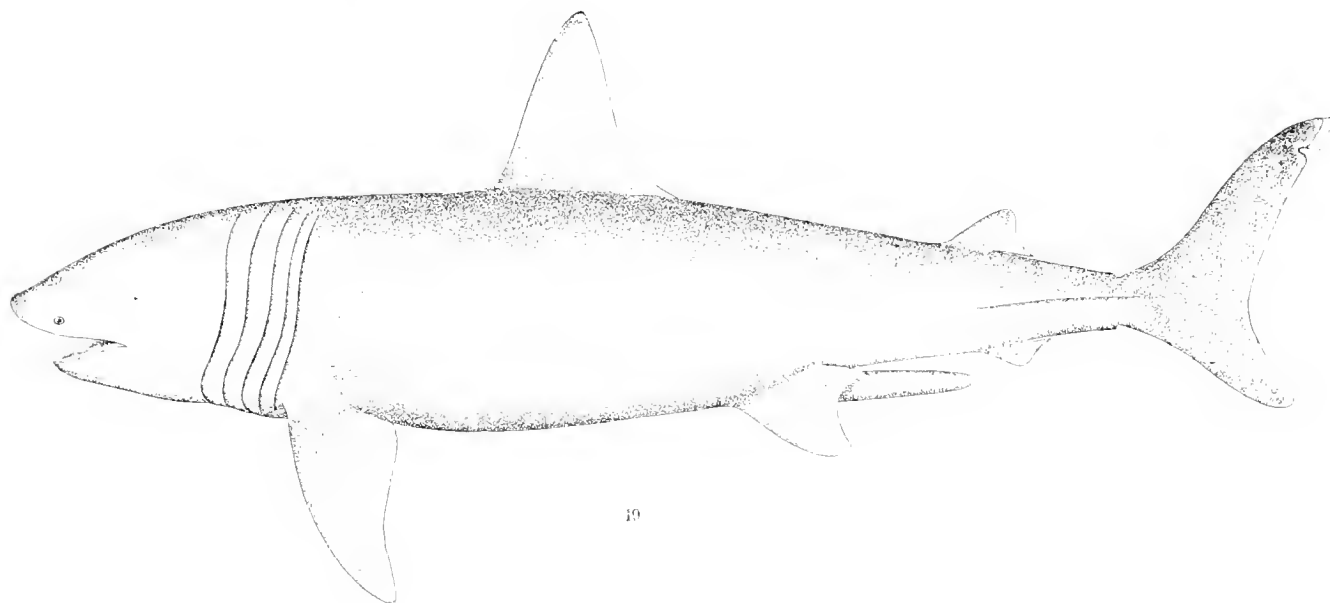
16



17



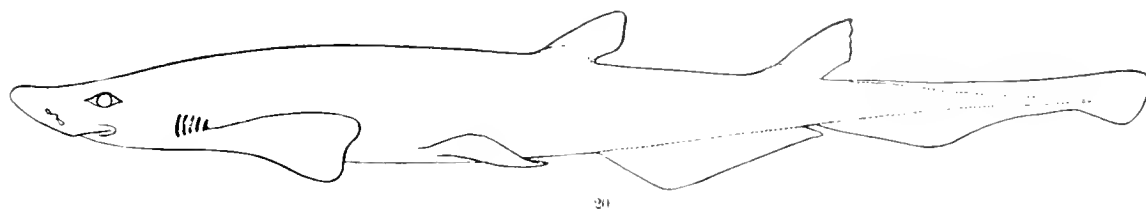
18



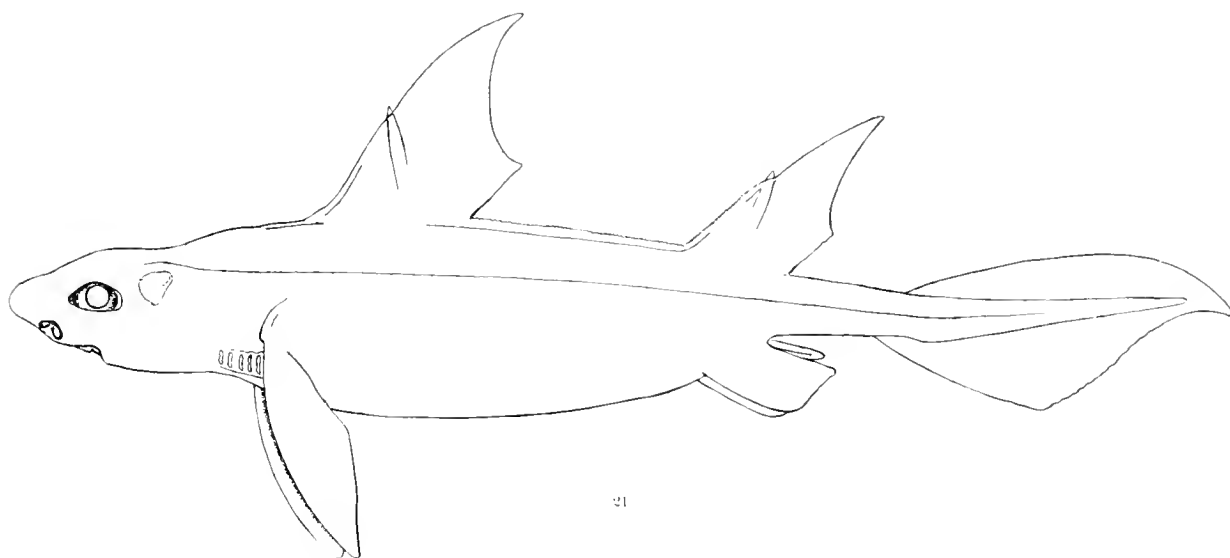
19

16. SCYLLIORHYNCHUS PROFUNDUM. (p. 17.)
18. SPINAX NIGER. (p. 10.)

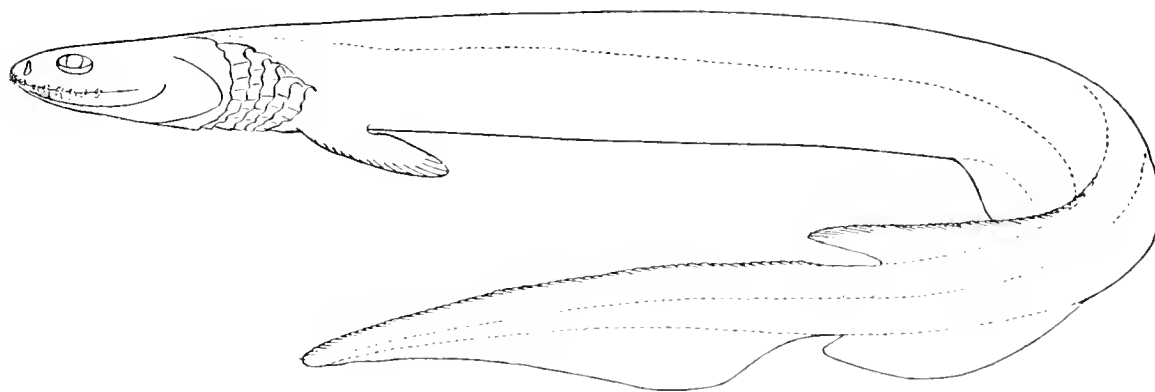
17. PSEUDOTRIAKIS MICRODON. (p. 18.)
19. CETERORHYNCHUS MAXIMUS. (p. 21.)



20



21

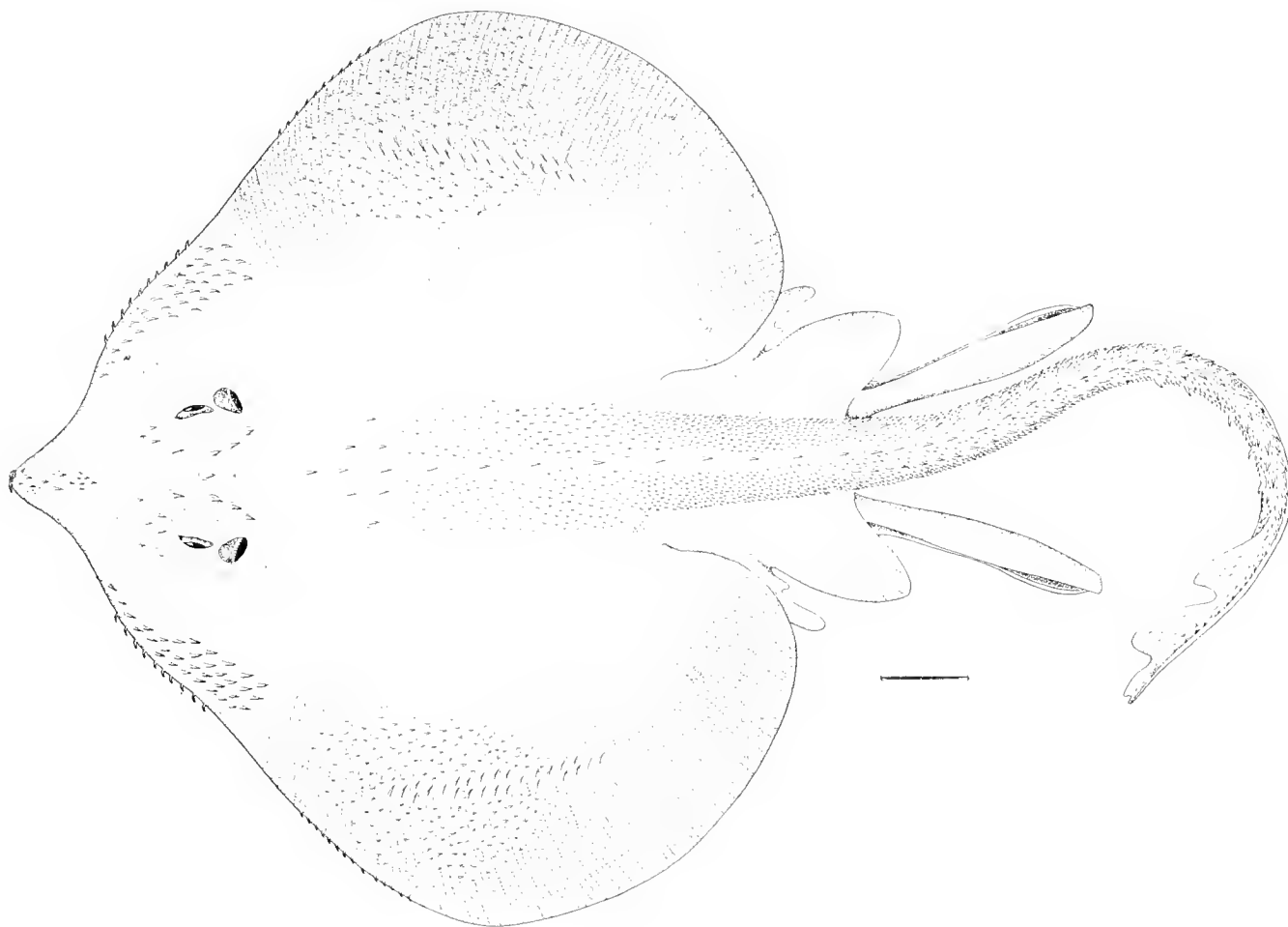


22

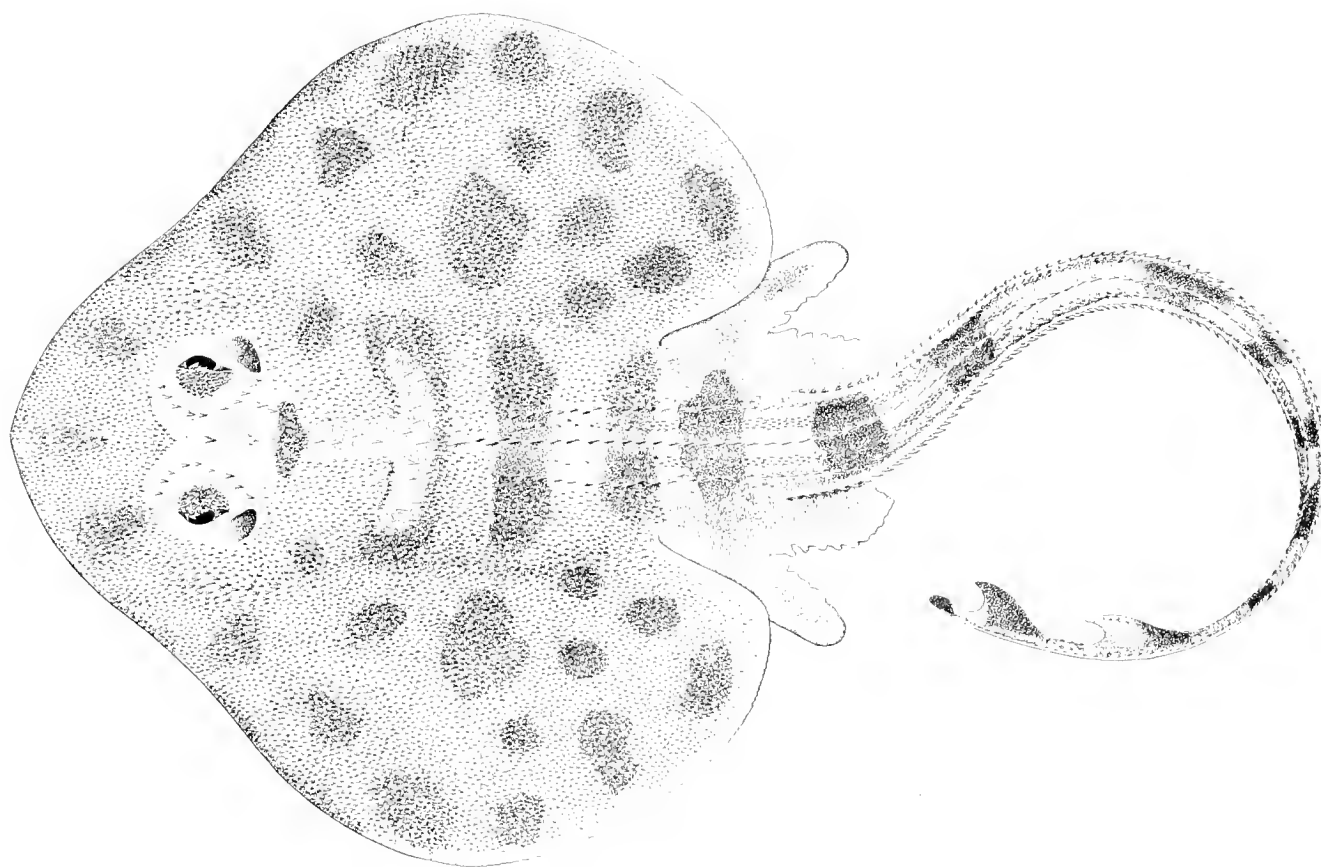
20. *PRISTHURUS ATLANTICUS*. (p. 21.)

21. *ONYXOPTUS CENTRINA*. (p. 15.)

22. *CHLAMYDOSELACHUS ANGINEUS*. (p. 22.)



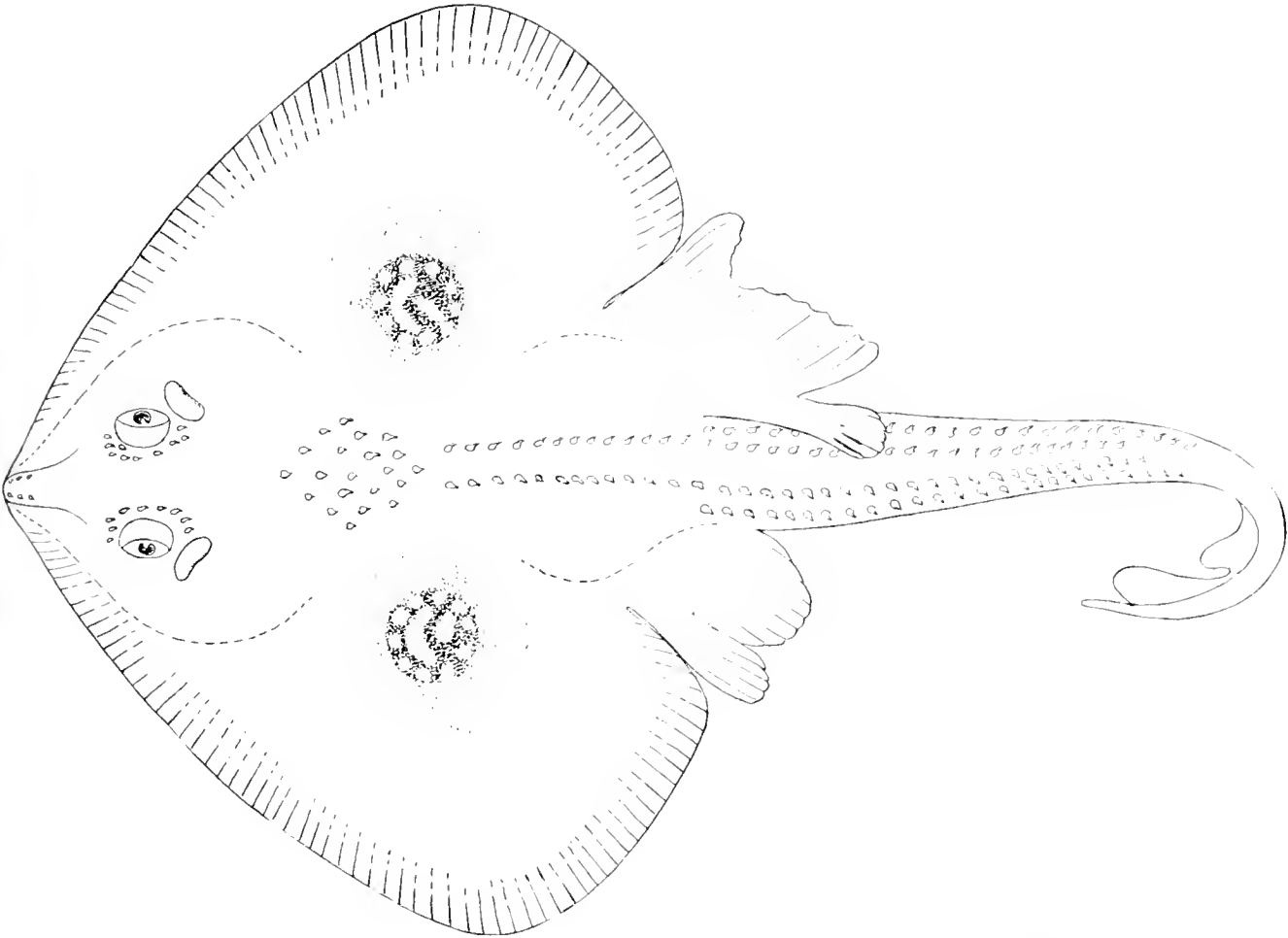
23



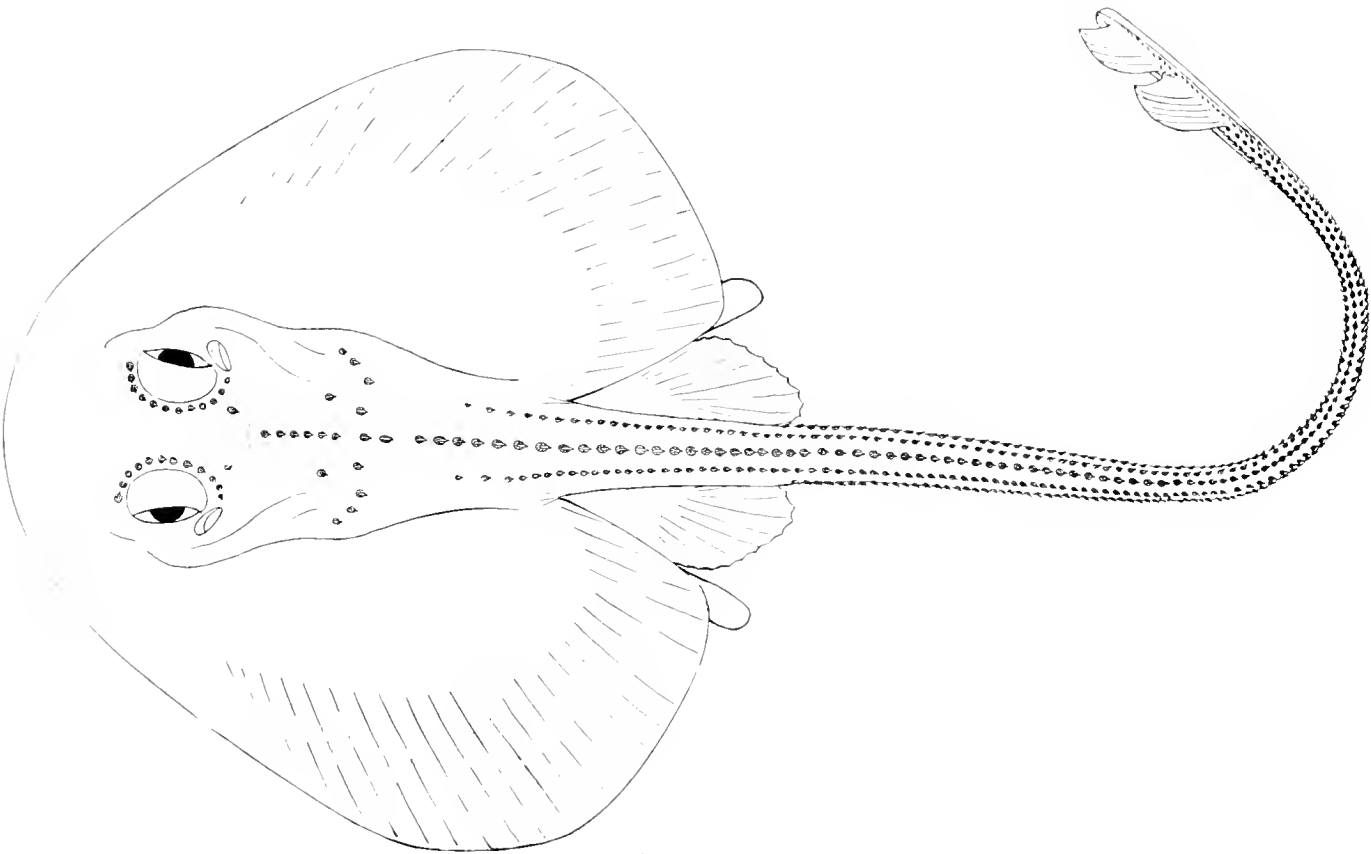
24

23. *RAJA ACRELEYI*. (p. 25.)

24. *RAJA ACRELEYI ORNATA*. (p. 26.)



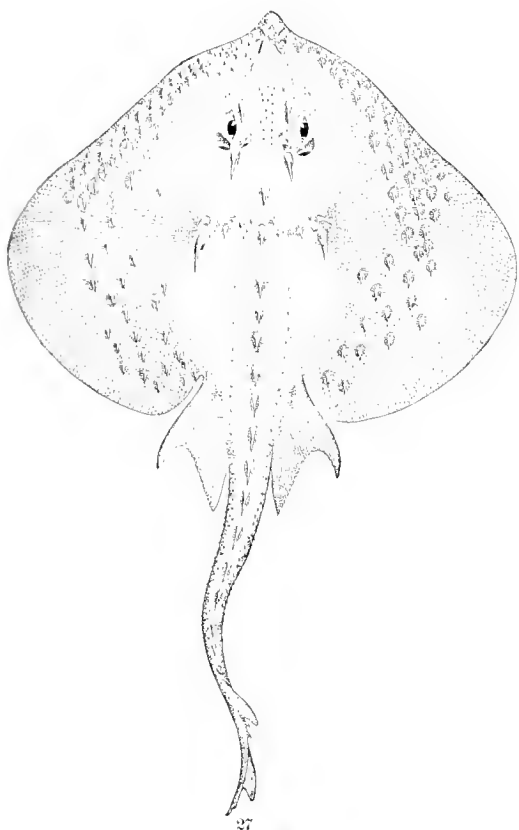
25



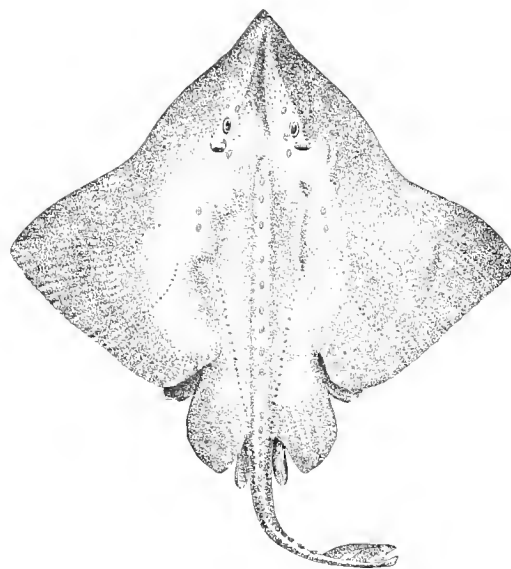
26

25. *RAIA CIRCULARIS.* (p. 27.)

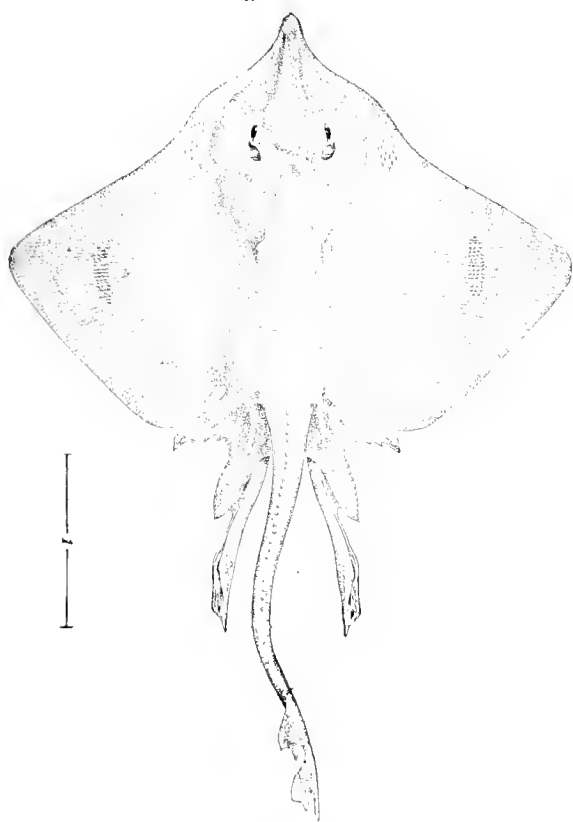
26. *RAIA PLINTONIA.* (p. 27.)



27



28



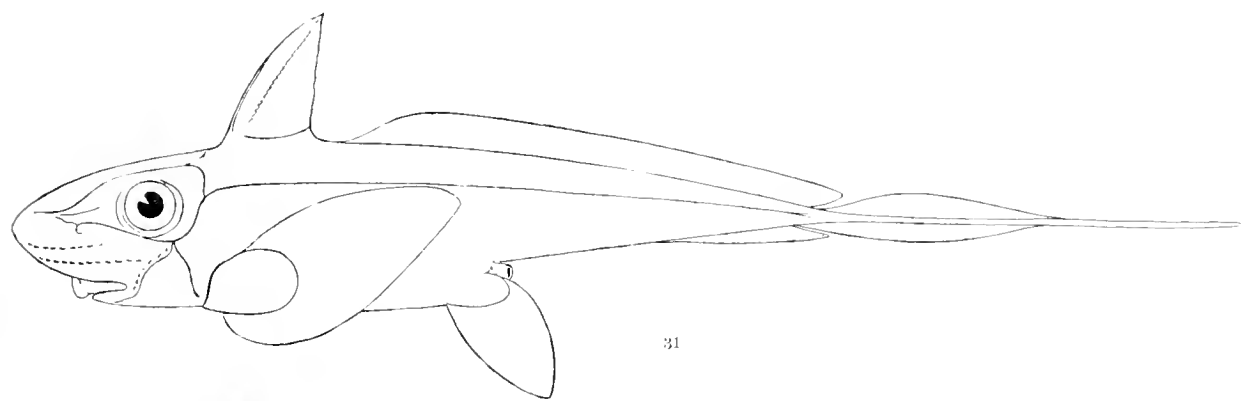
29



30

27. *RAIA RADIATA*. (p. 25.)
29. *RAIA LEVIS*. (p. 28.)

28. *RAIA HYPERLOREA*. (p. 28.)
30. *RAIA GRANULATA*. (p. 29.)



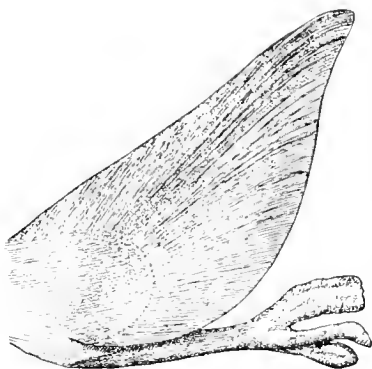
31



32



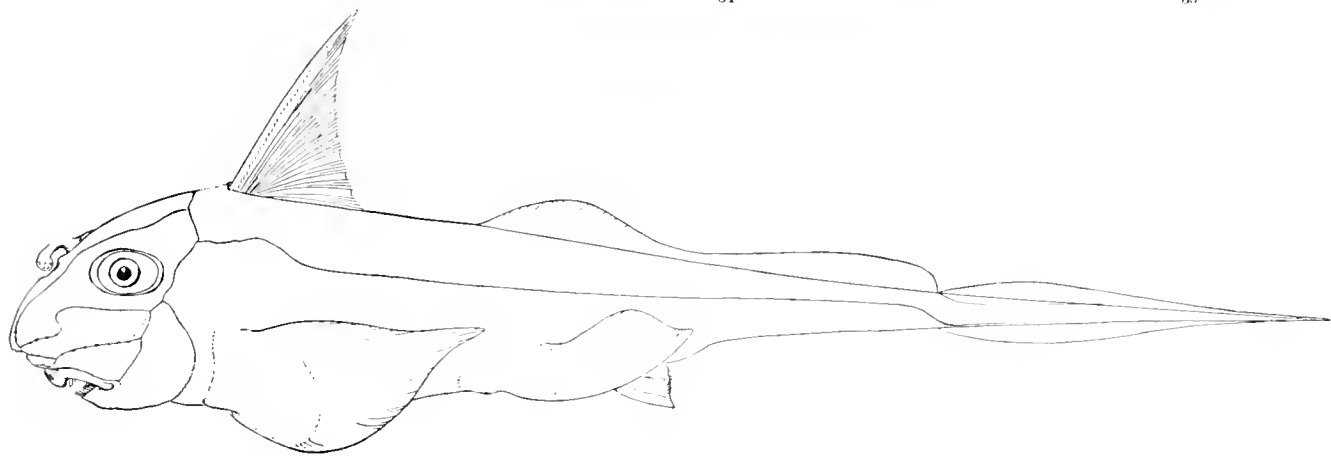
33



34



35

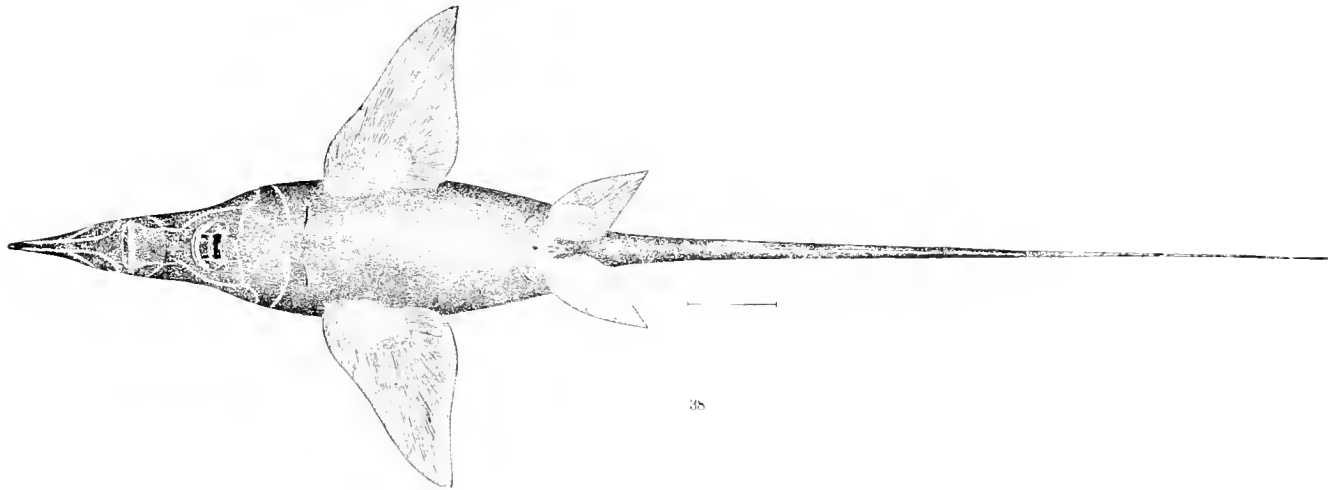


36

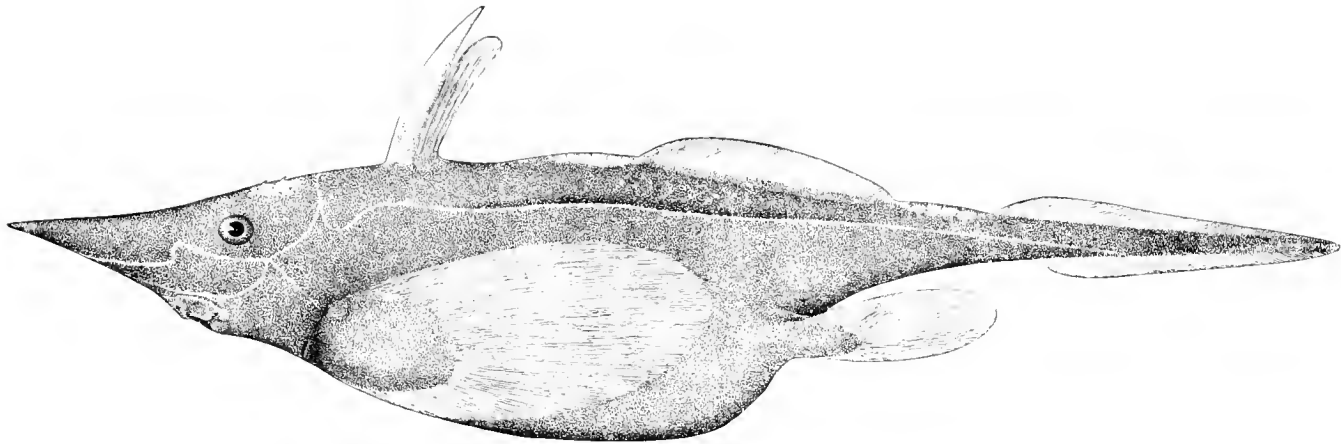
31. CHIMERA MONSTROSA. (p. 31.) 32-35. CHIMERA AFFINIS. (p. 31.) 36. CALLORHYNCHUS ANTARCTICUS. (p. 32.)



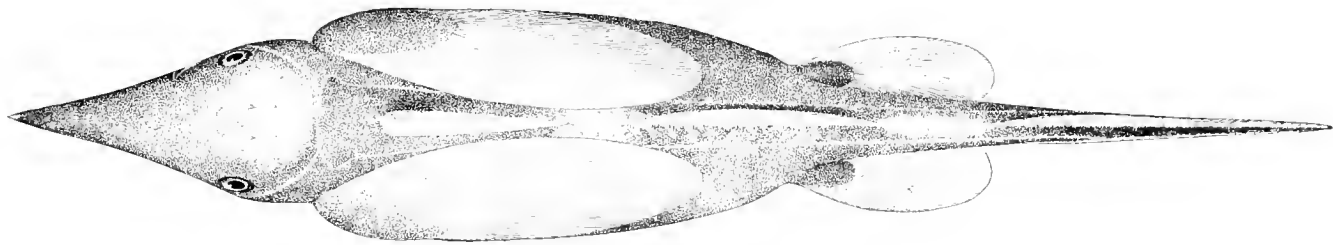
37



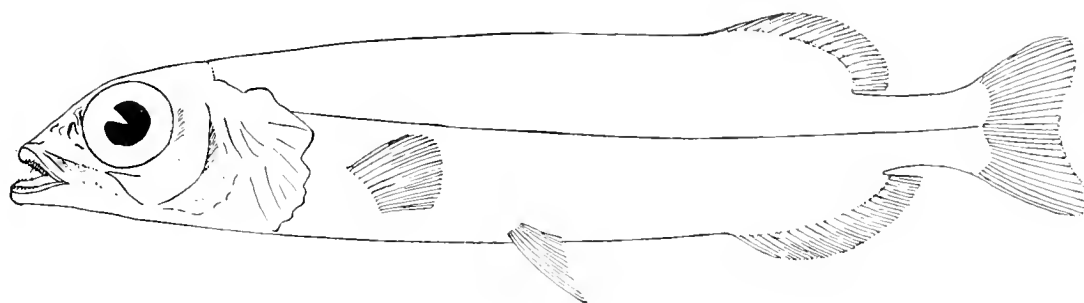
38



39



40



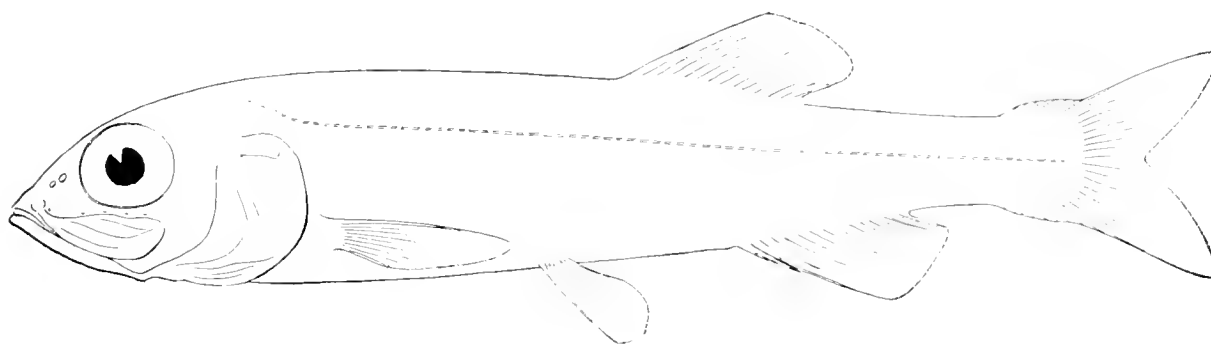
41



42



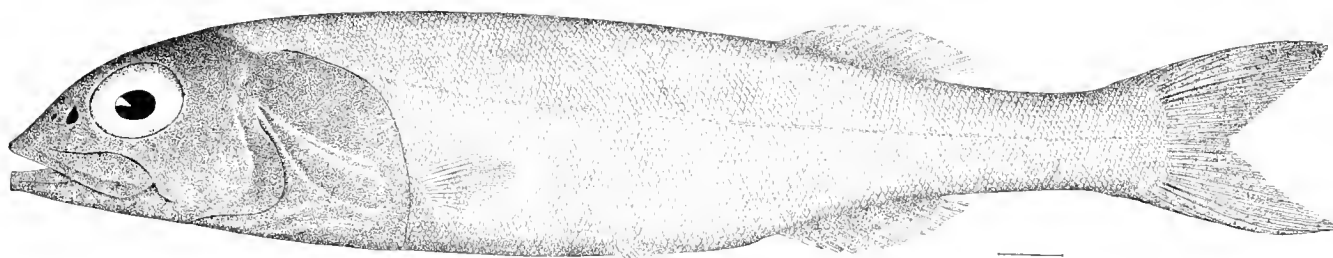
43



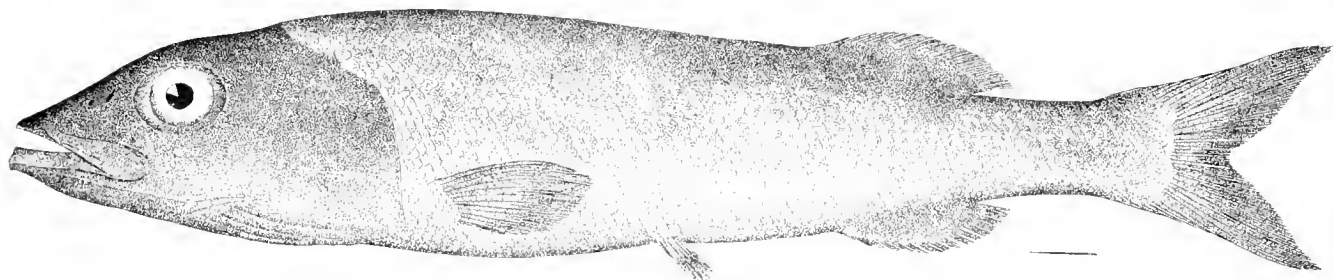
44

41. ALEPOCEPHALUS ROSTRATUS. (p. 36.)
43. CONOCARA MACROPTERA. (p. 39.)

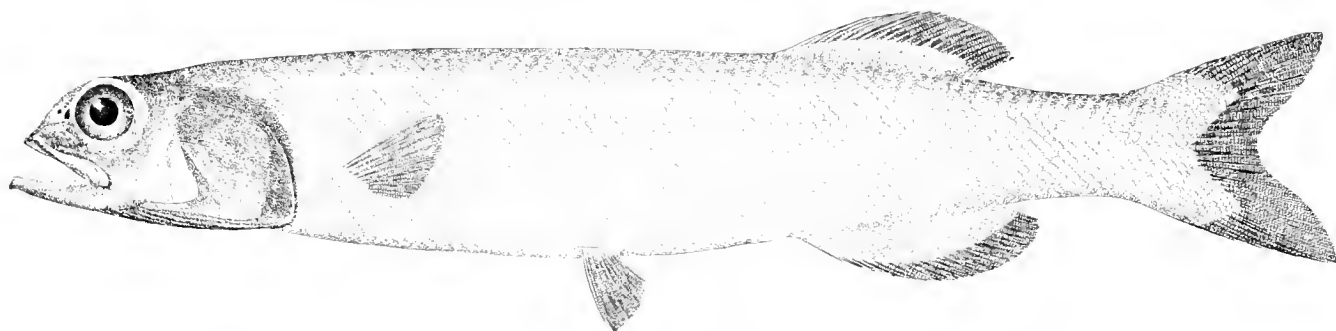
42. ALEPOCEPHALUS NIGER. (p. 38.)
44. BATHYTROCTES MACROLEPIS. (p. 41.)



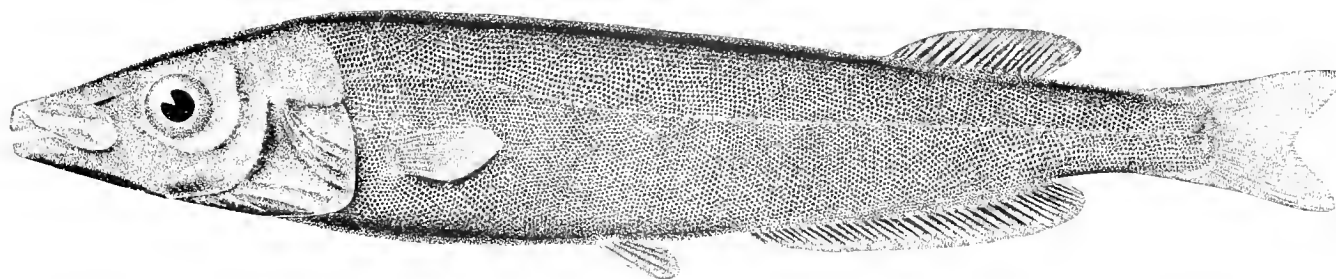
45



46



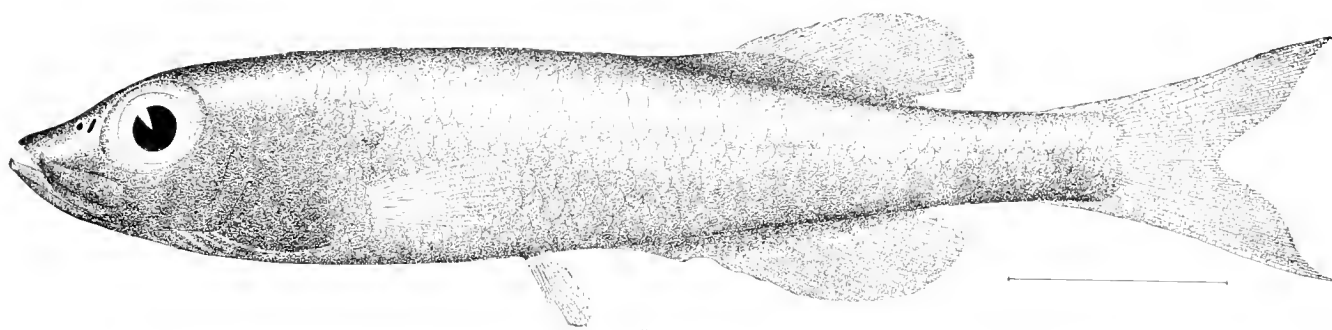
47



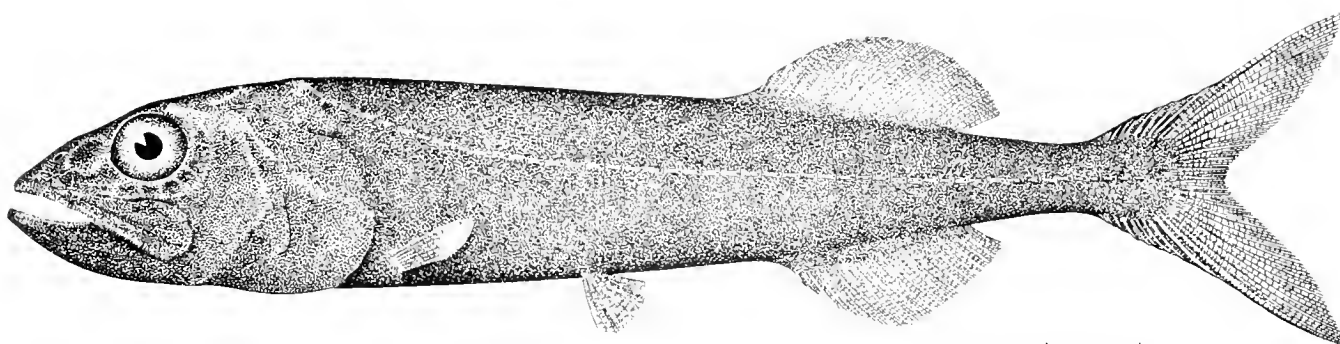
48

45. ALEPOCEPHALUS AGASSIZII. (p. 37.)
47. ALEPOCEPHALUS BAIRDI. (p. 38.)

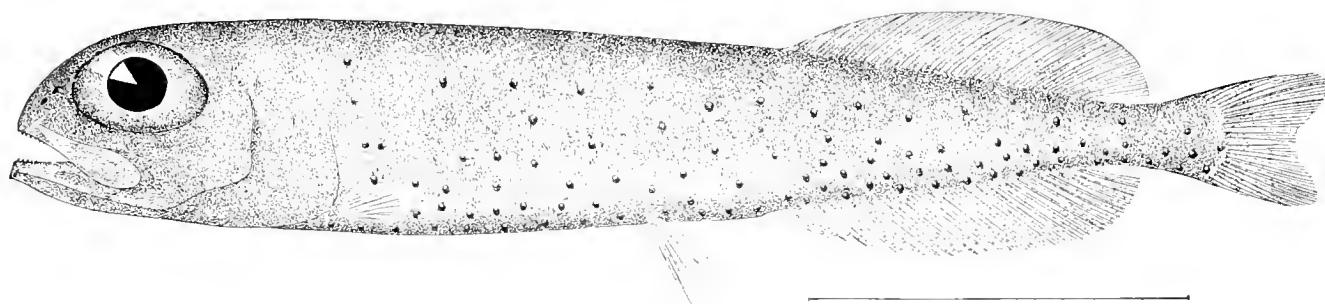
46. ALEPOCEPHALUS PRODUCTUS. (p. 37.)
48. CONOCARA McDONALDI. (p. 39.)



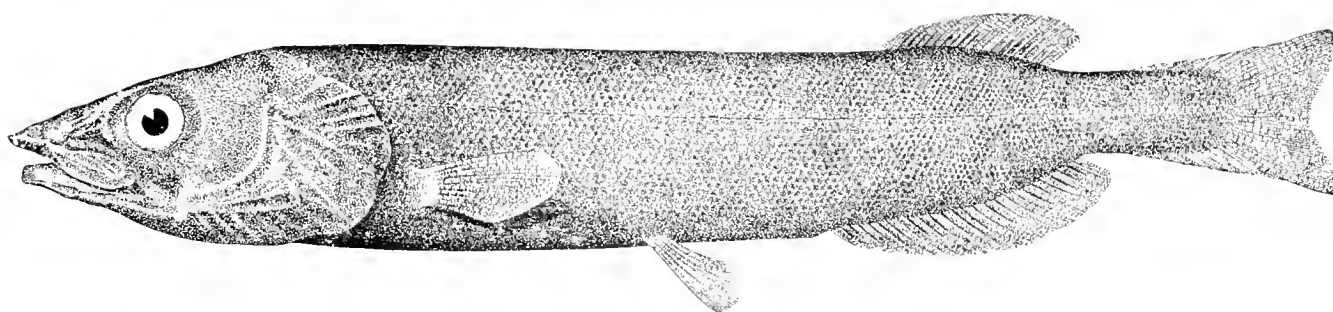
49



50



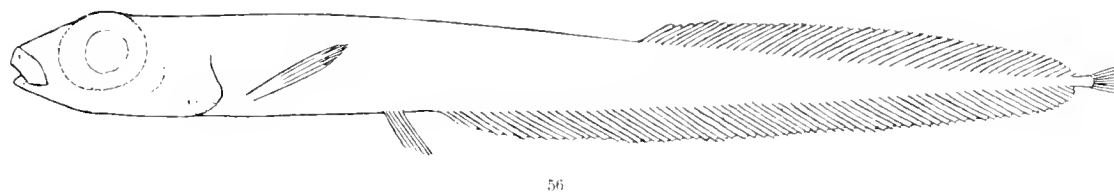
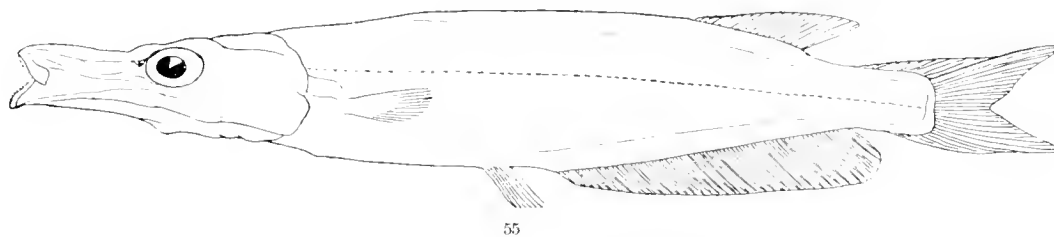
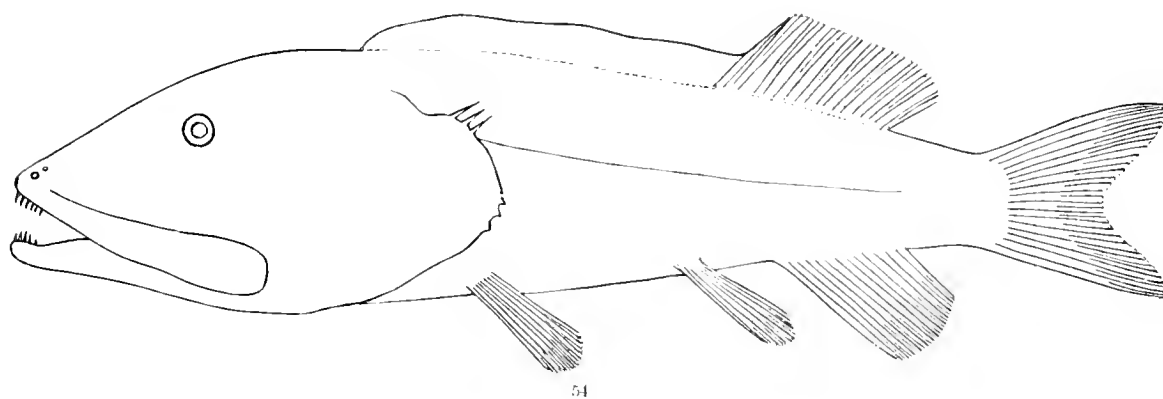
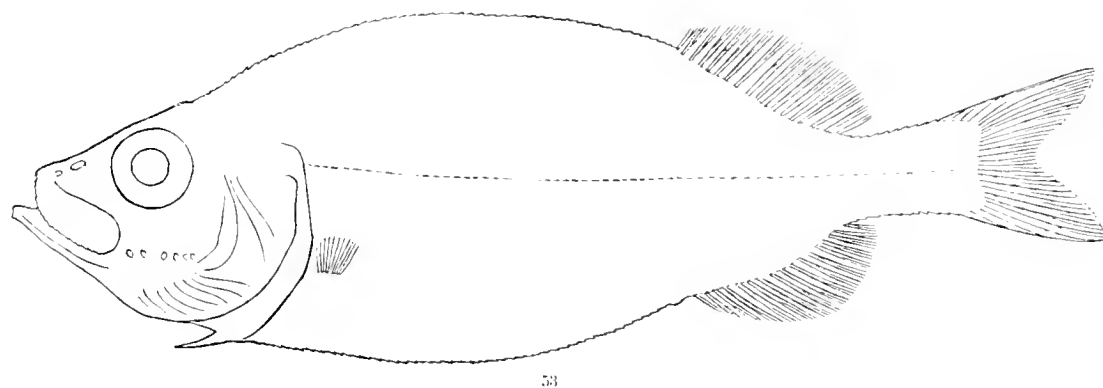
51



52

49. BATHYTROCTES ANTILLARUM. (p. 44.)
51. ALEPOSOMUS COOPERI. (p. 47.)

50. BATHYTROCTES EQUATORIS. (p. 44.)
52. PTEROTHRISUS GISSELI. (p. 51.)

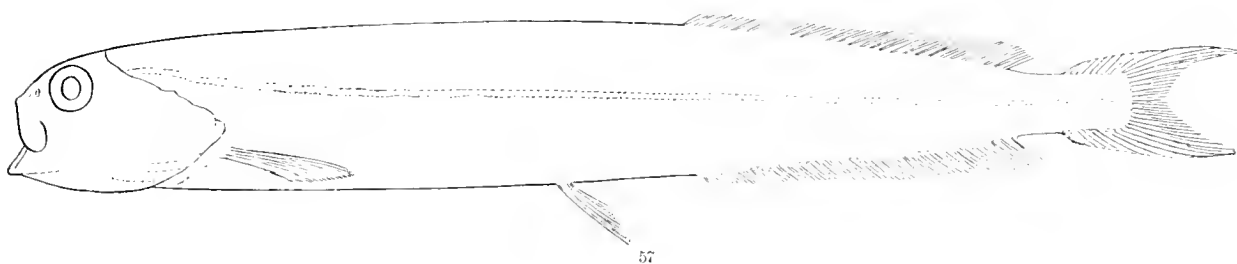


53. *PLATYROCTES APUS*. (p. 46.)

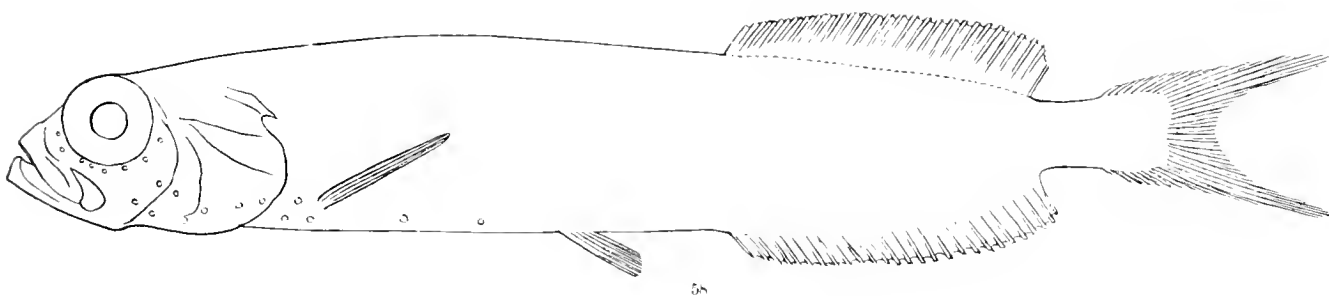
55. *AULASTOMATOMORPHA PHOSPHOROPS*. (p. 50.)

54. *ANOMALOPTERUS PINGUIS*. (p. 49.)

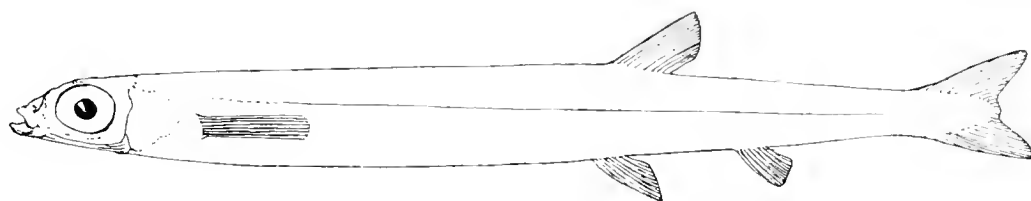
56. *LEPTODERMA MACROPS*. (p. 49.)



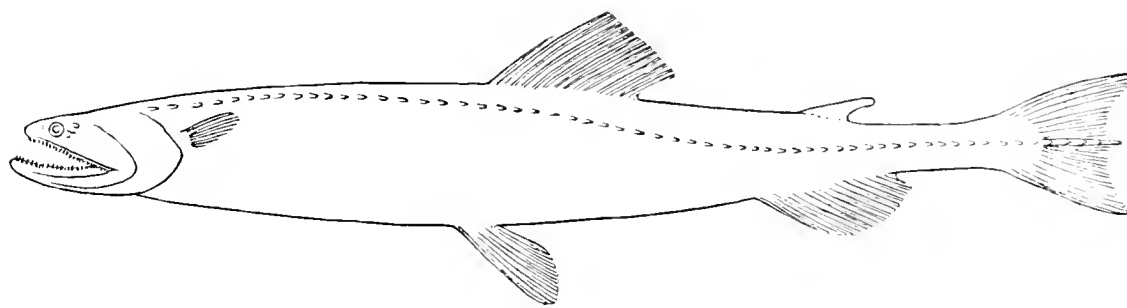
57



58



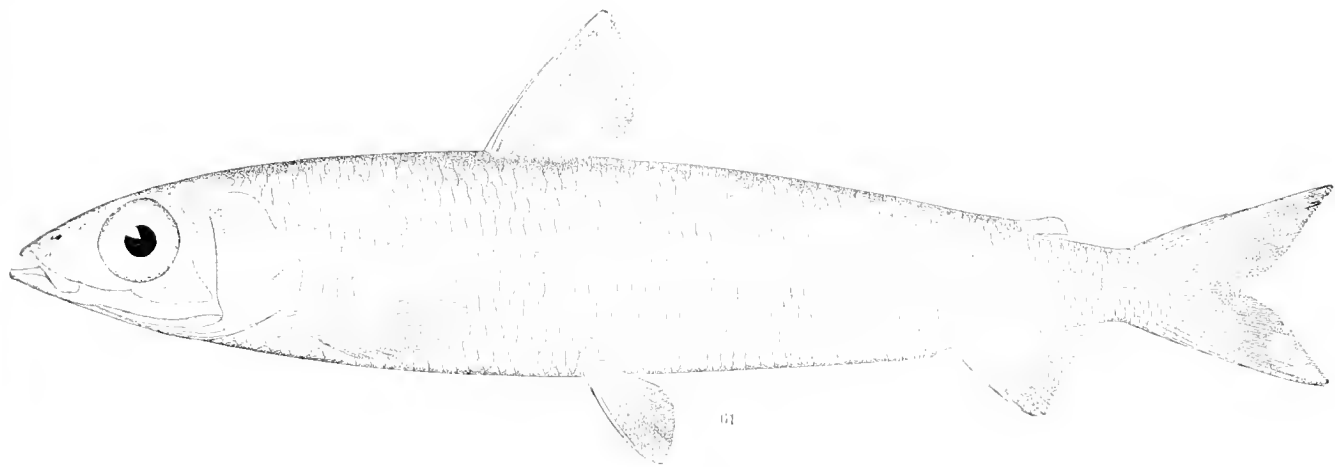
59



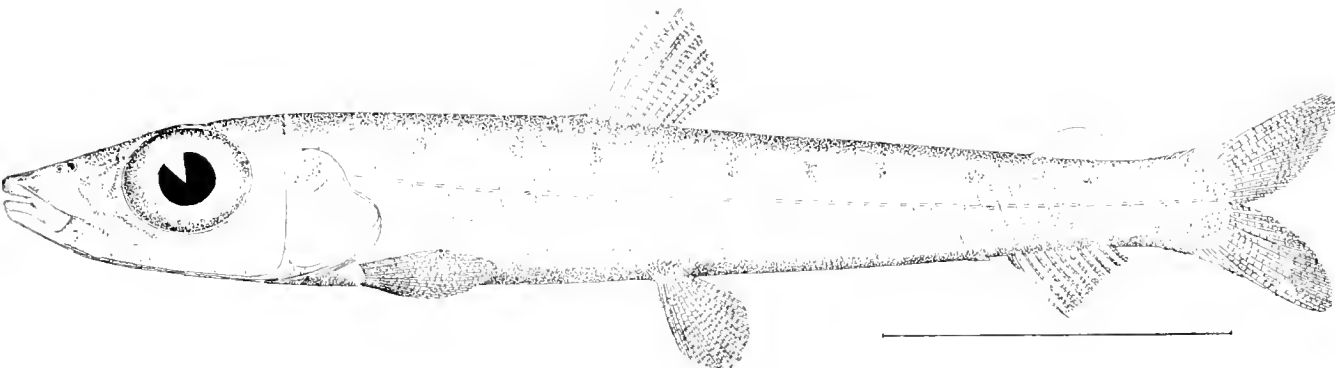
60

57. *XENODERMICHTHYS NODULOSUS*. (p. 46.)
59. *MICROSTOMA ROTUNDATUM*. (p. 53.)

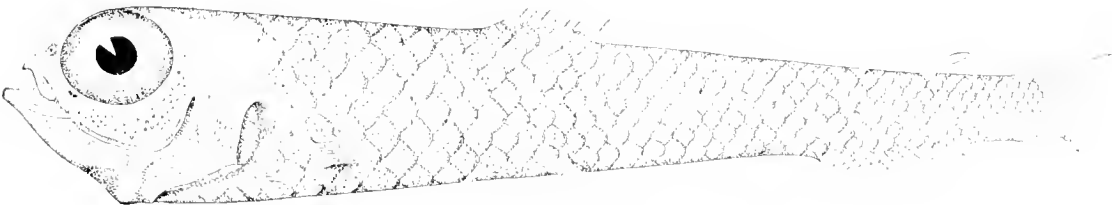
58. *ALEPOSOMUS SOCIALIS*. (p. 48.)
60. *HARPODON MACROCHIR*. (p. 59.)



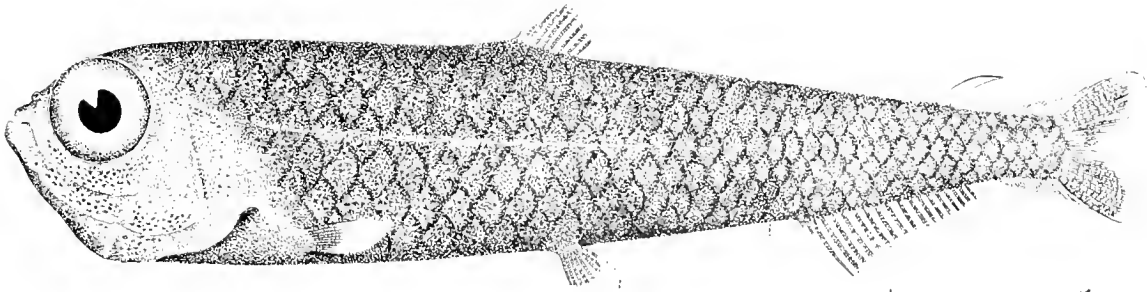
61



62



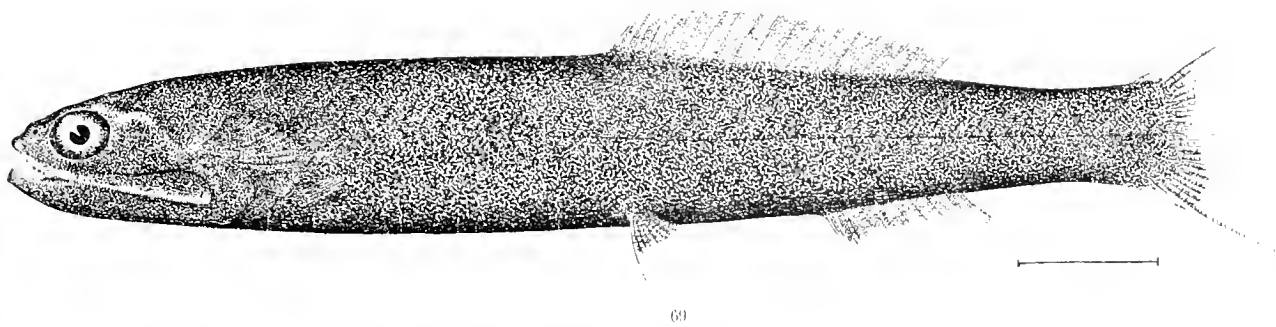
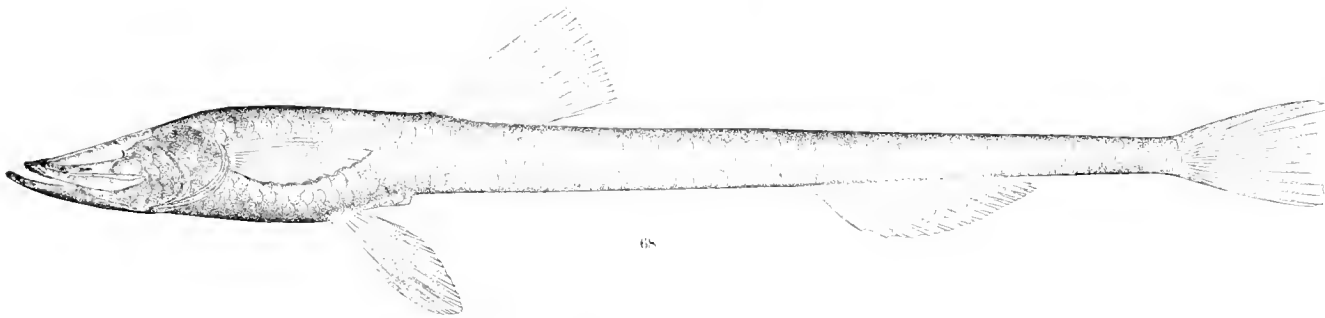
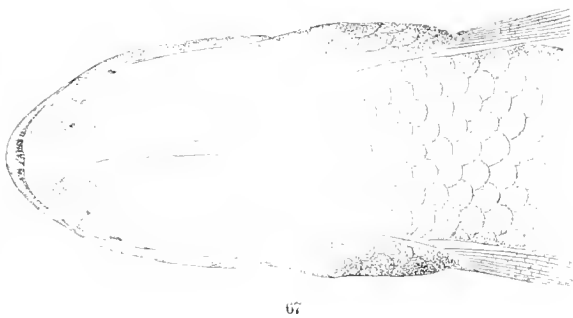
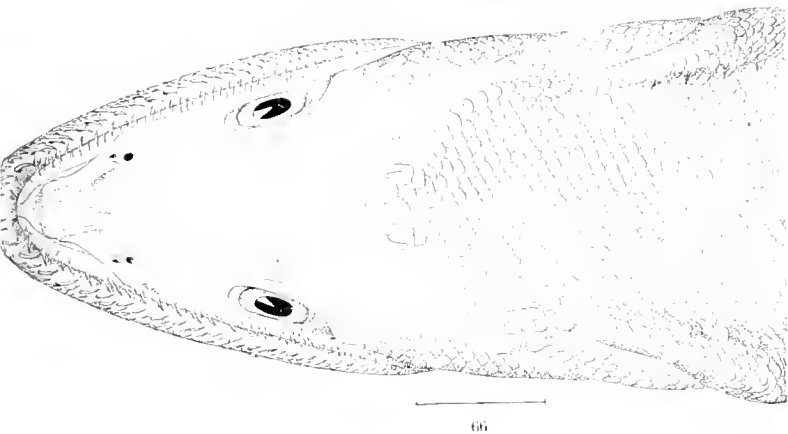
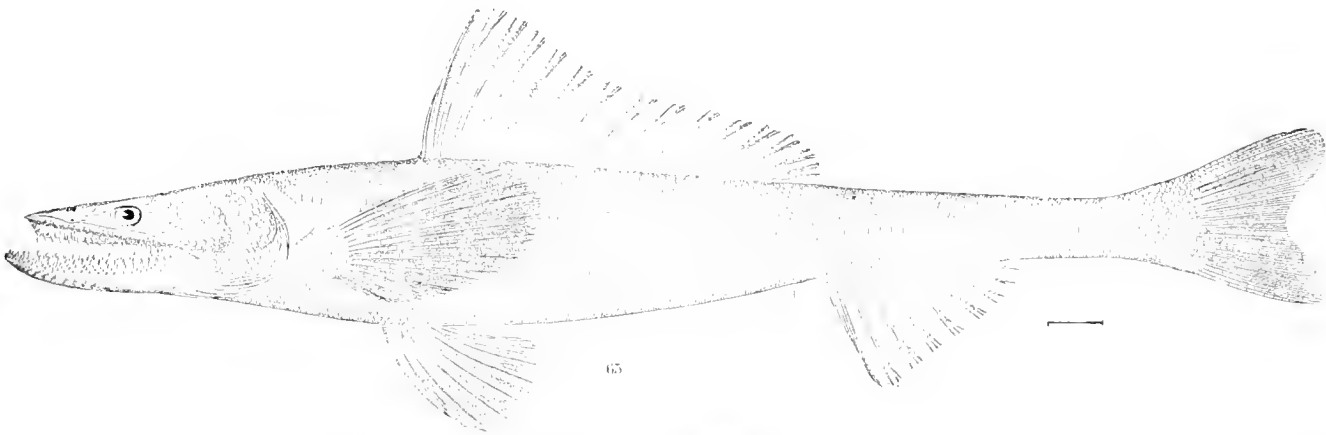
63



64

61. ARGENTINA SILUS. (p. 52.)
63. BATHYLAGUS EURYOPS. (p. 55.)

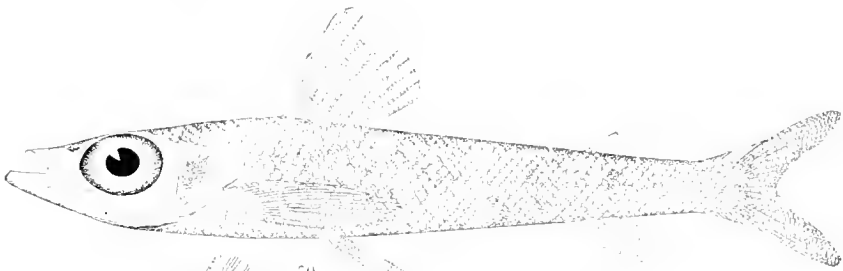
62. ARGENTINA STRIATA. (p. 52.)
64. BATHYLAGUS BENEDICTI. (p. 55.)



65, 66. BATHYSAURUS FEROX. (p. 58.)

67, 68. IPOPS MURRAYI. (p. 67.)

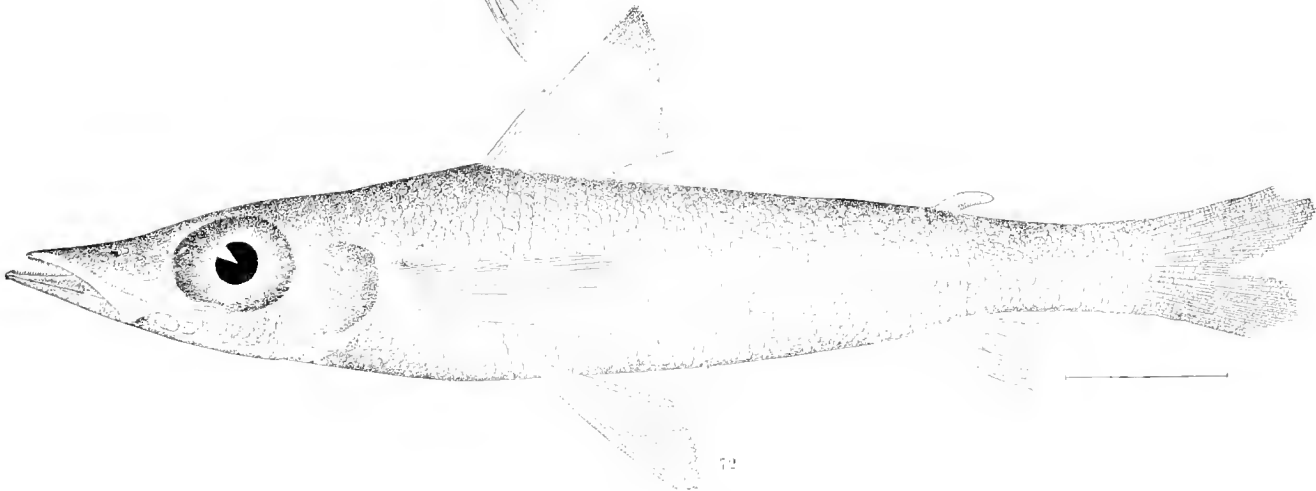
69. BATHYLACO NIGRICANS. (p. 57.)



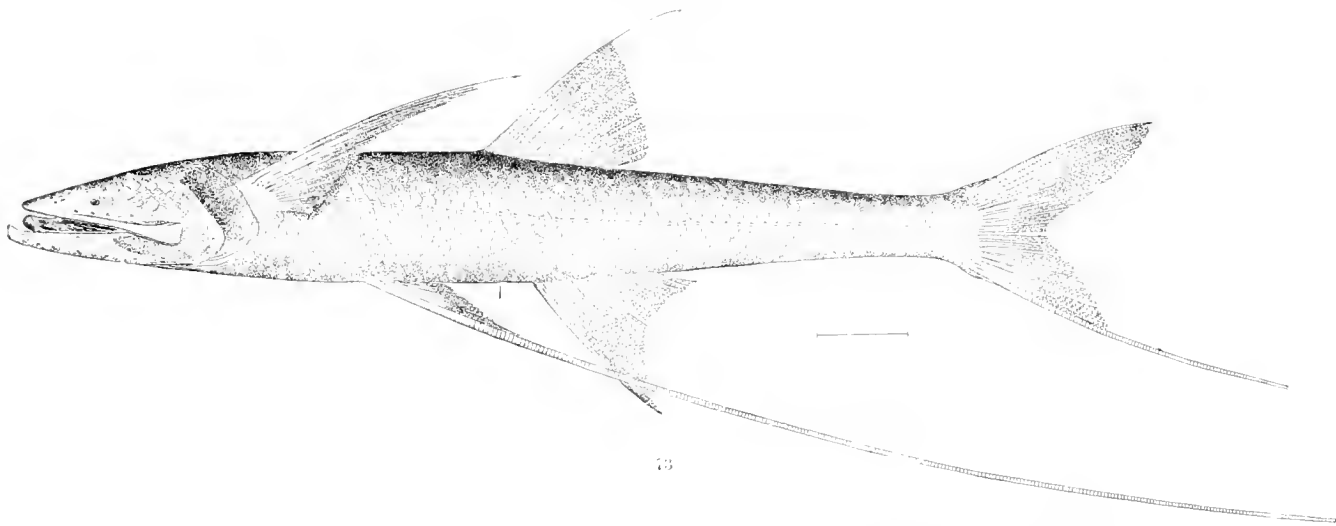
70



71



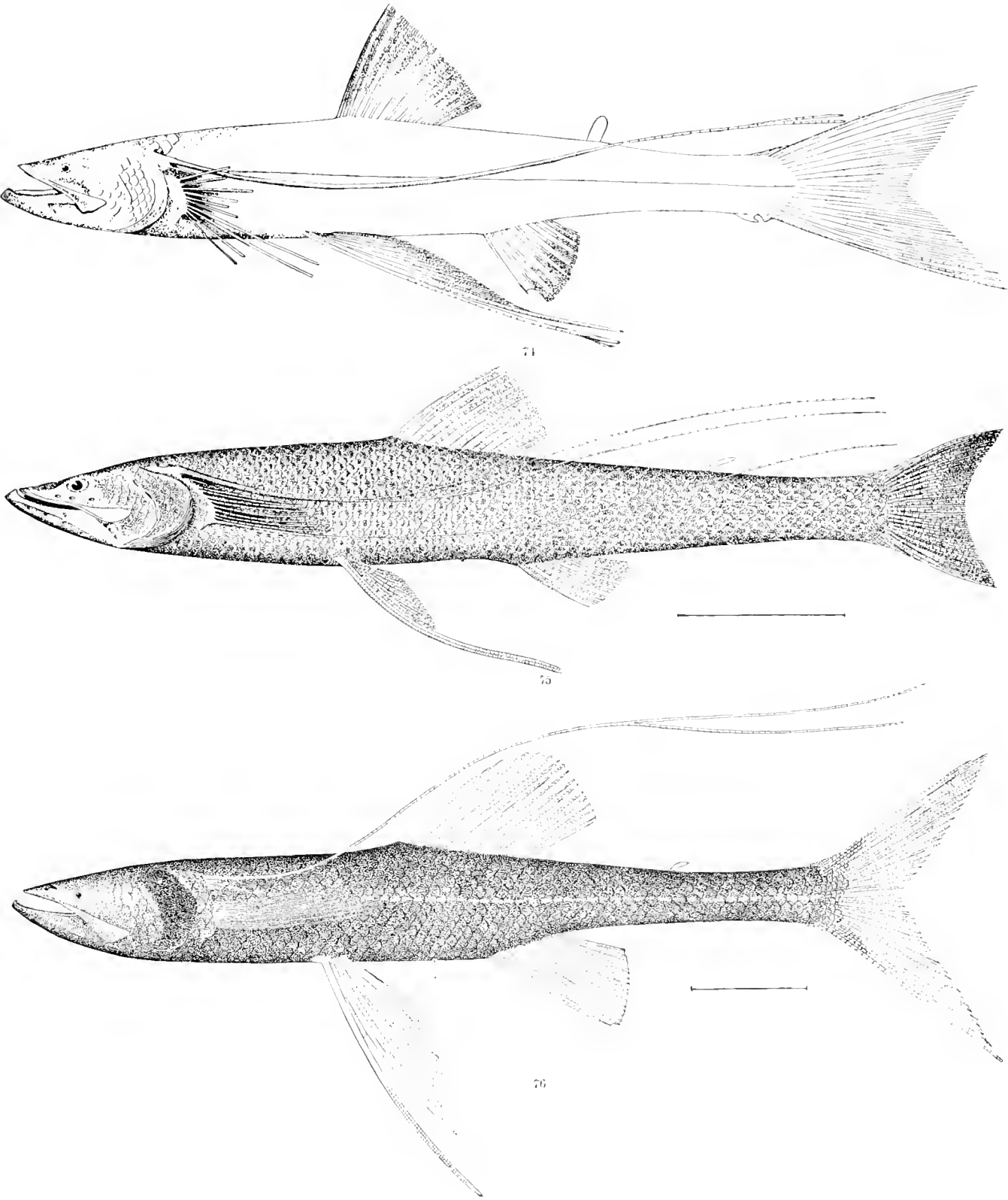
72



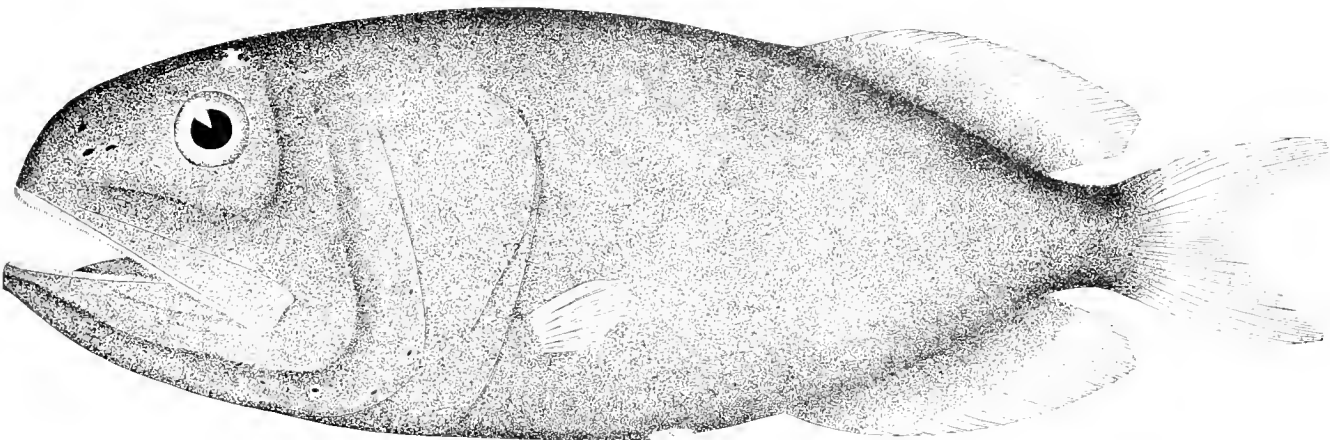
73

70. CHLOROPITHALMUS AGASSIZII. (p. 60.)
72. CHLOROPITHALMUS TRUCULENTUS. (p. 61.)

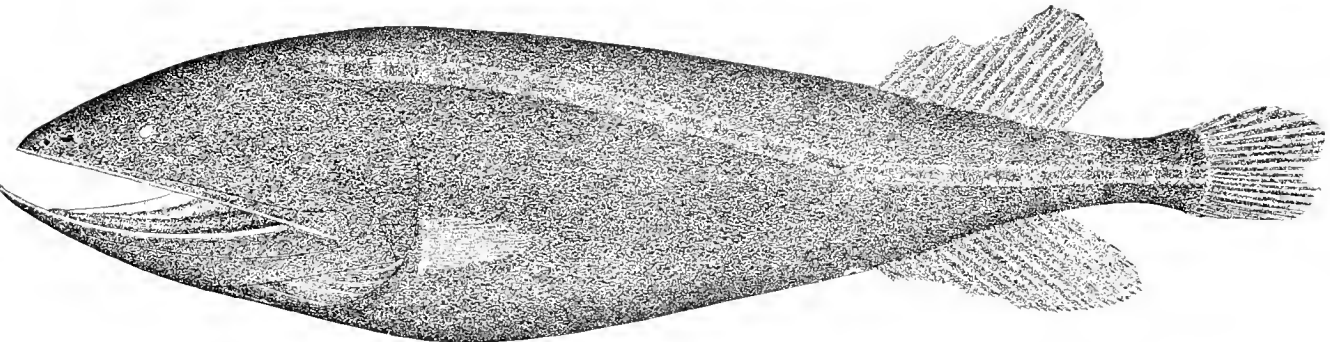
71. CHLOROPITHALMUS CHALYBEIUS. (p. 60.)
73. BENTHOSAURUS GRALLATOR. (p. 62.)



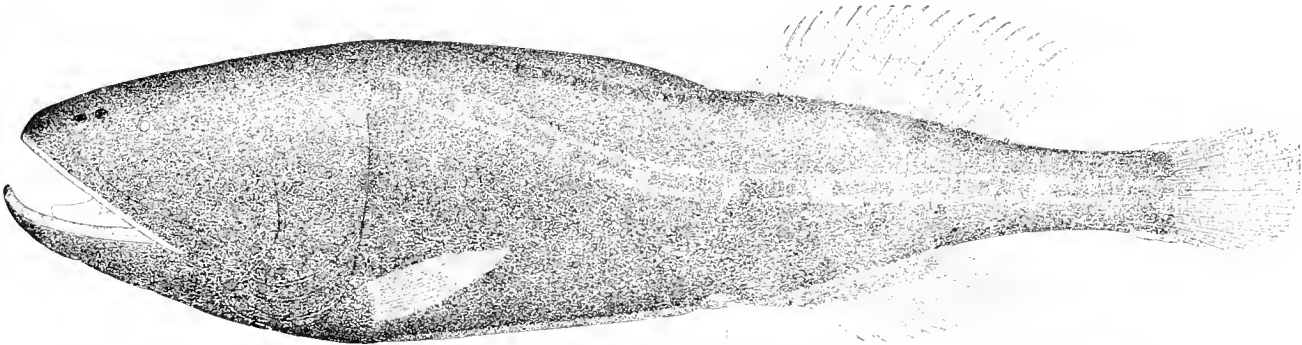
74. BATHYPTEROIS DUBIUS. (p. 64.) 75. BATHYPTEROIS QUADRIFILIS. (p. 65.)
76. BATHYPTEROIS LONGIPES. (p. 66.)



77



78

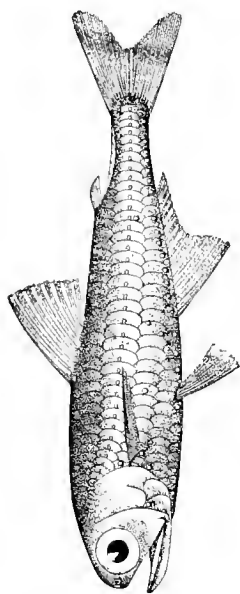


79

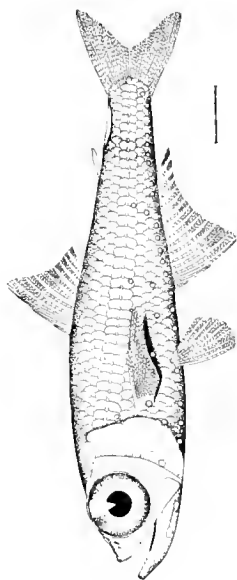
77. RONDELETIA BICOLOR. (p. 68.)

78. CETOMIMUS GILLI. (p. 69.)

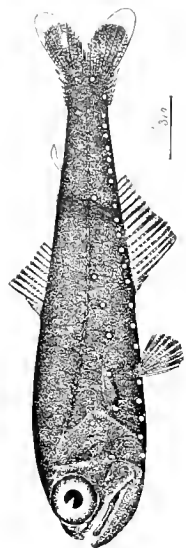
79. CETOMIMUS STORERI. (p. 69.)



81

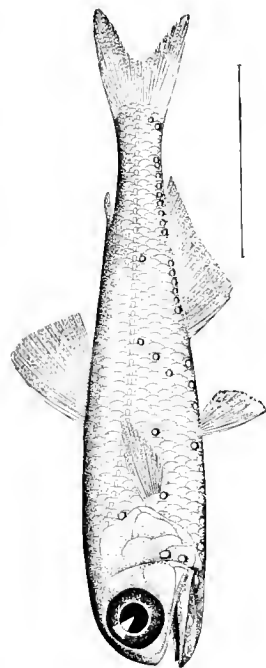


83

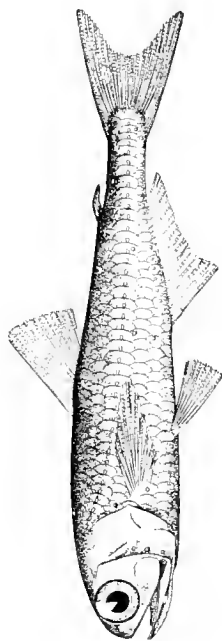


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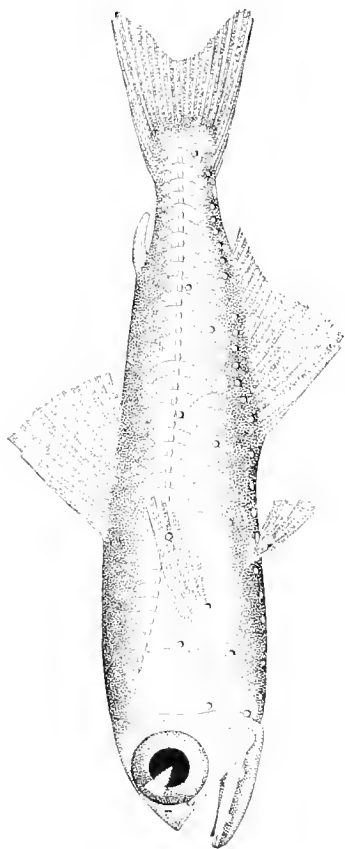
81. MYCTOPHUM OPALINUM. (p. 72.)
83. MYCTOPHUM BENOITII. (p. 74.)
85. BENTHOSEMA MÜLLERI. (p. 76.)



80

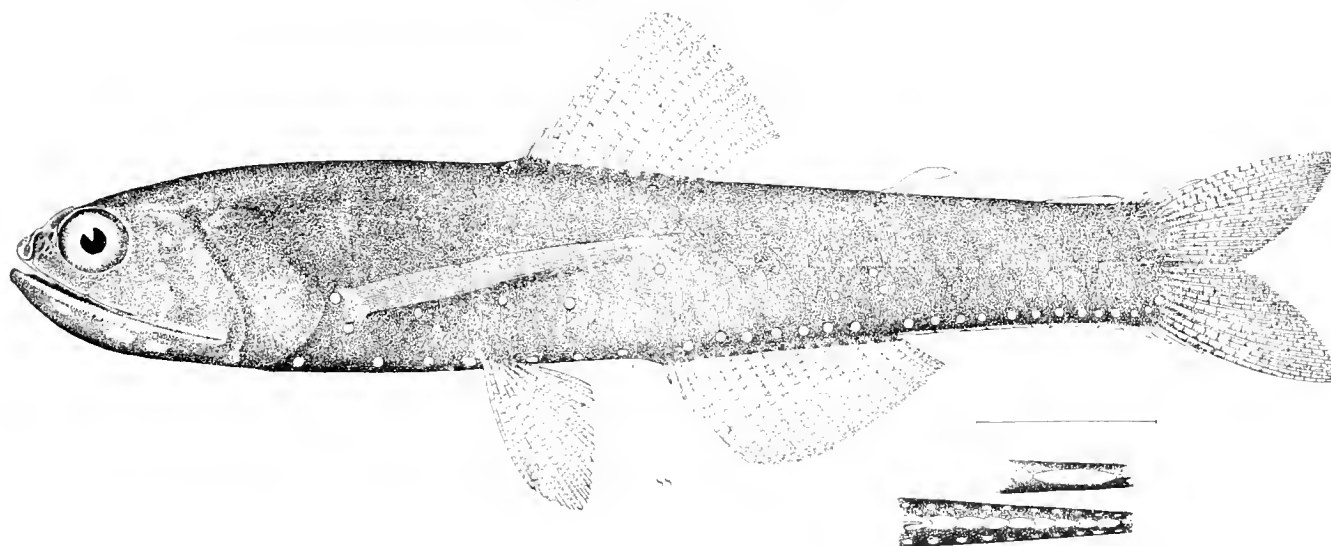
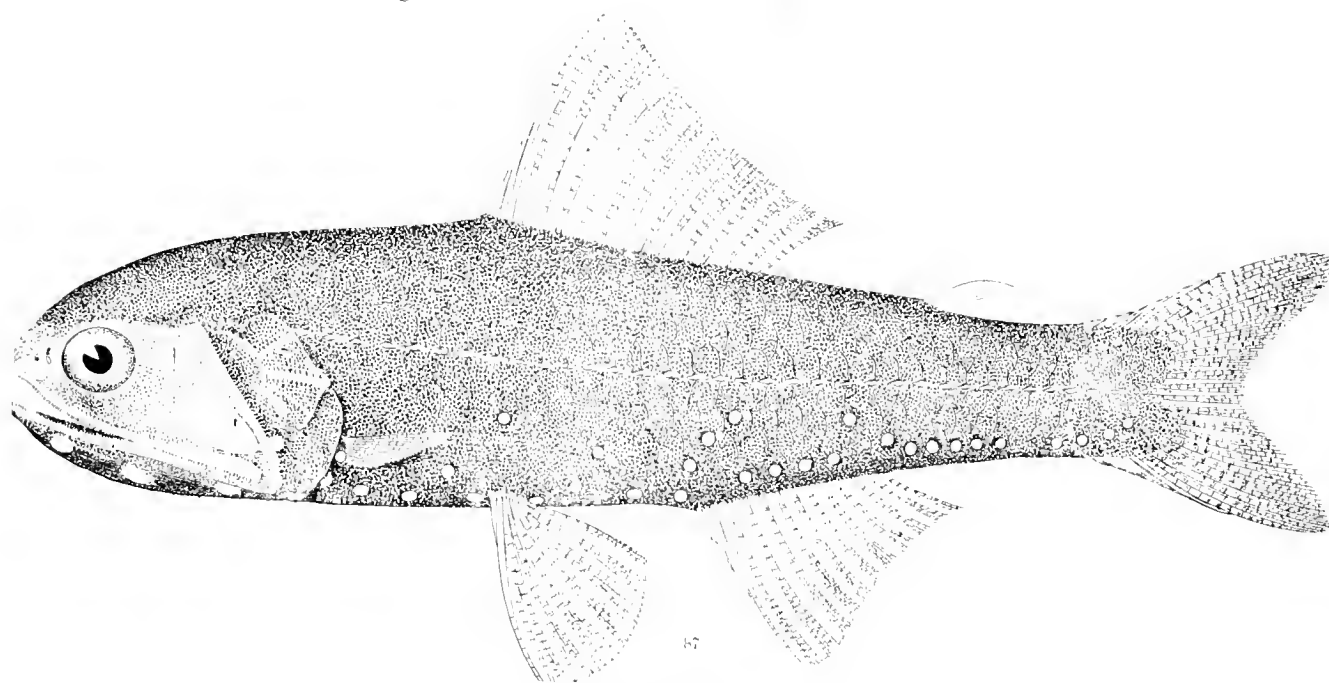
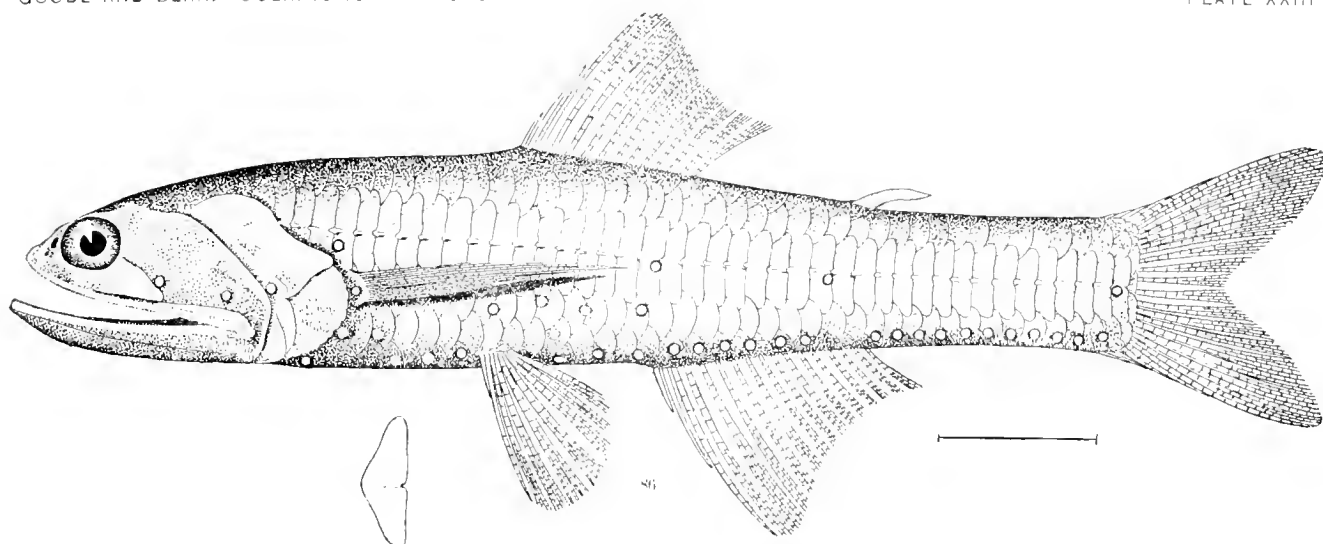


82



84

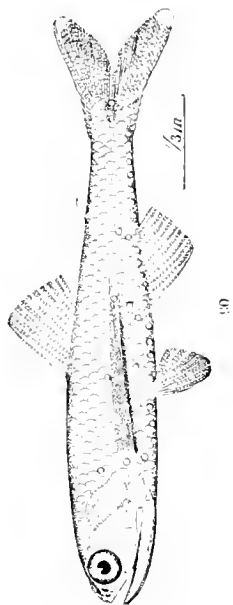
80. MYCTOPHUM PUNCTATUM. (p. 71.)
82. MYCTOPHUM HUMBOLDTI. (p. 73.)
84. MYCTOPHUM REMIGER. (p. 75.)



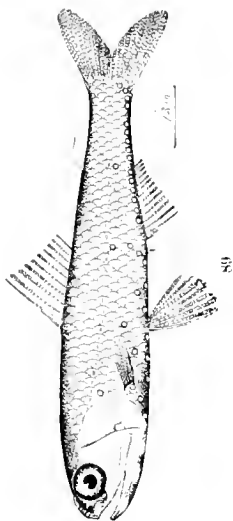
86. LAMPANYCTUS CROCODILUS. (p. 79.)

87. LAMPANYCTUS GEMELLARII. (p. 80.)

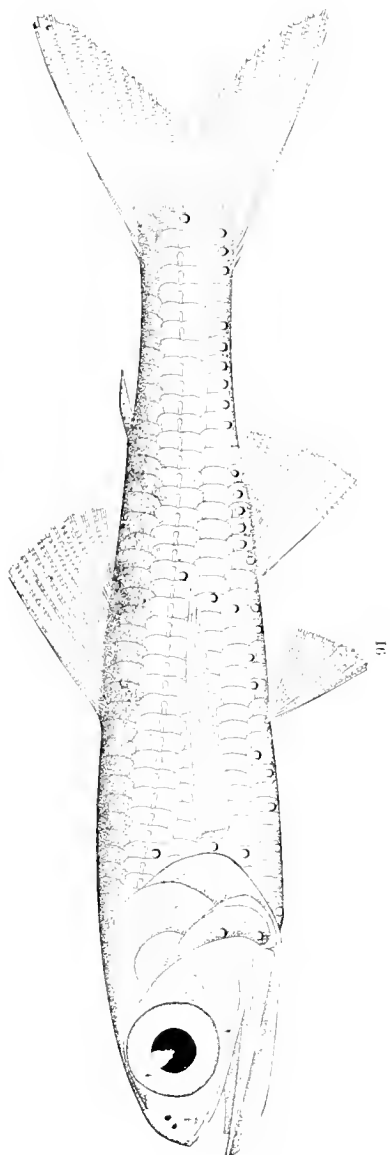
88. LAMPANYCTUS GEMMIFER. (p. 80.)



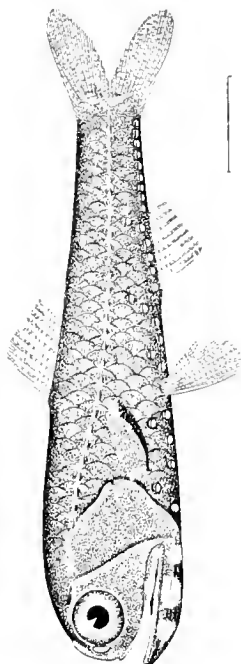
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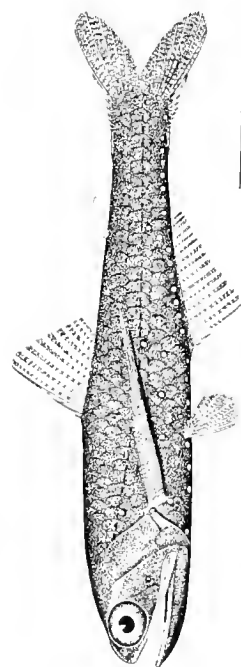
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91



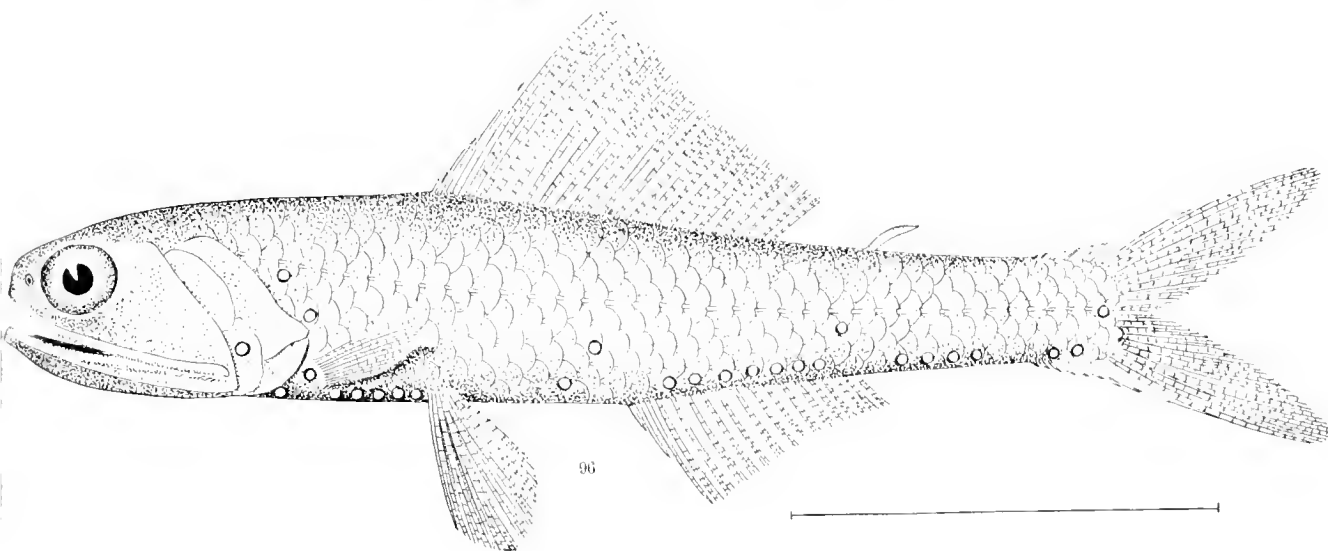
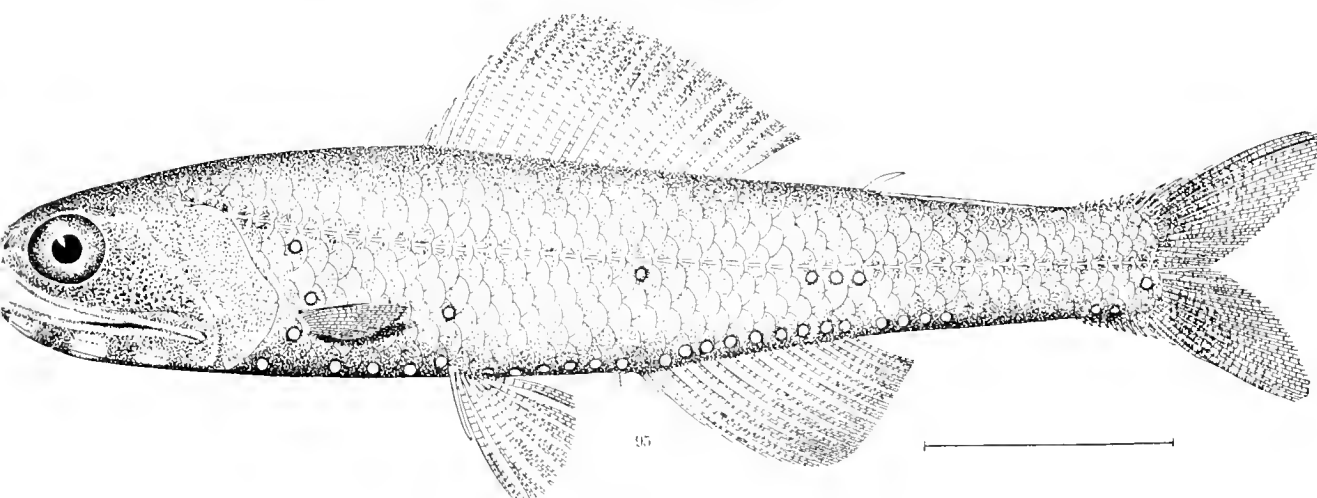
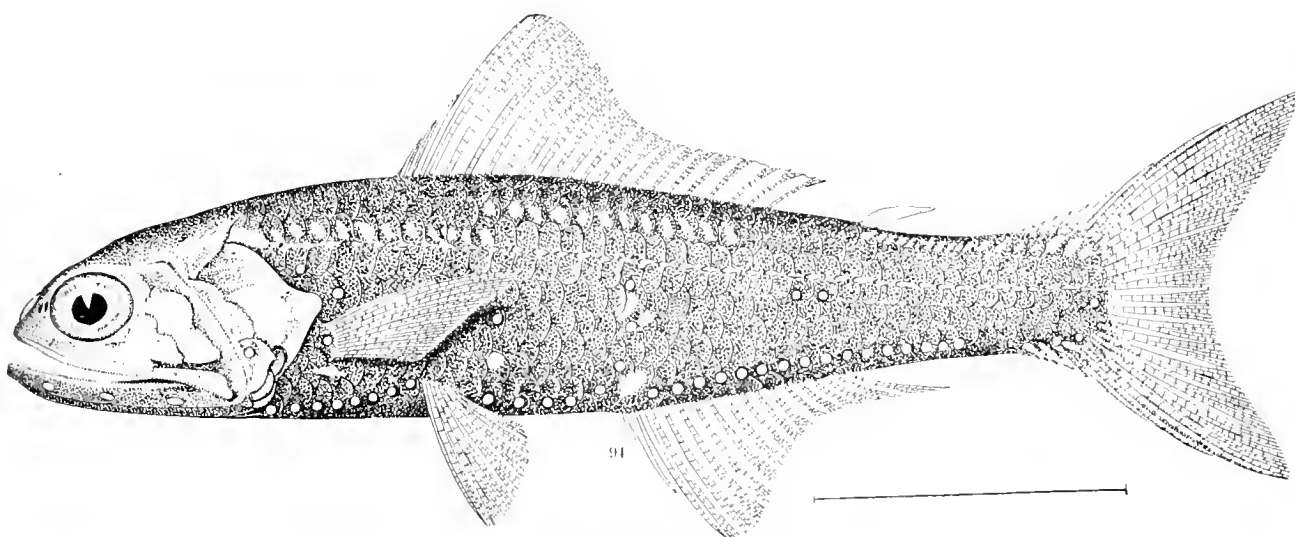
92



93

89. LAMPANYCTUS LACERTA. (p. 81.)
90. LAMPANYCTUS ALATUS. (p. 79.)

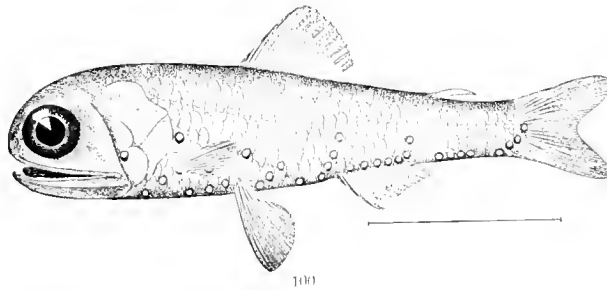
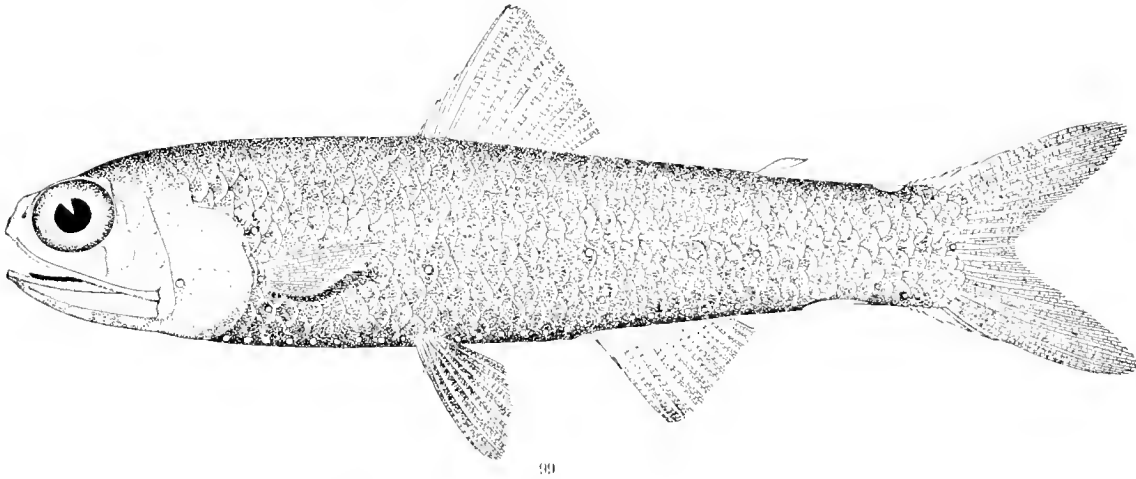
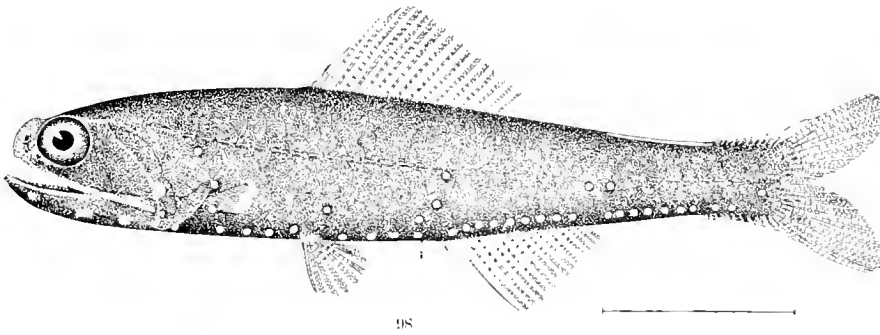
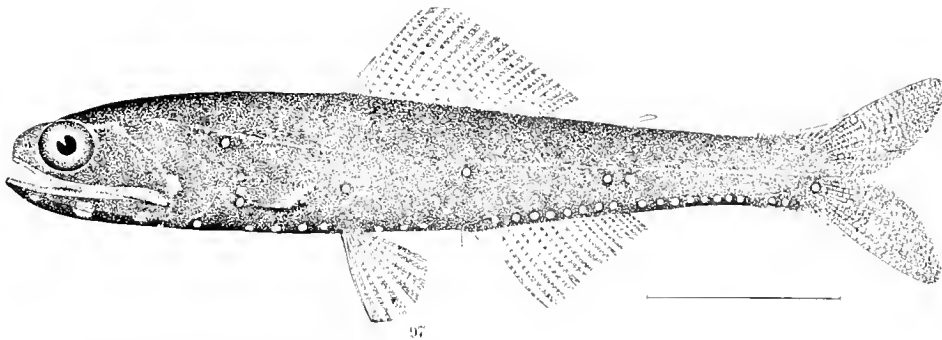
91. CERATOSCOPELUS MADERENSIS. (p. 82.)
92. LAMPANYCTUS THETA. (p. 89.)



94. *NOTOSCOPELUS RESPLENDENS*. (p. 83.)

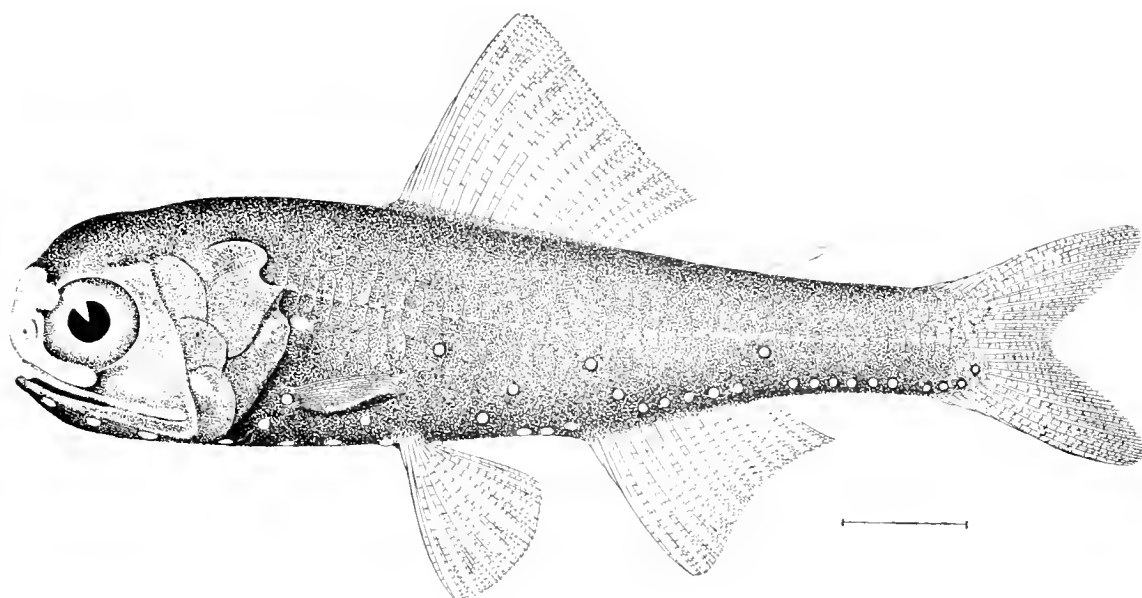
95. *NOTOSCOPELUS CASTANEUS*. (p. 84.)

96. *NOTOSCOPELUS CAUDISPINOSUS*. (p. 84.)

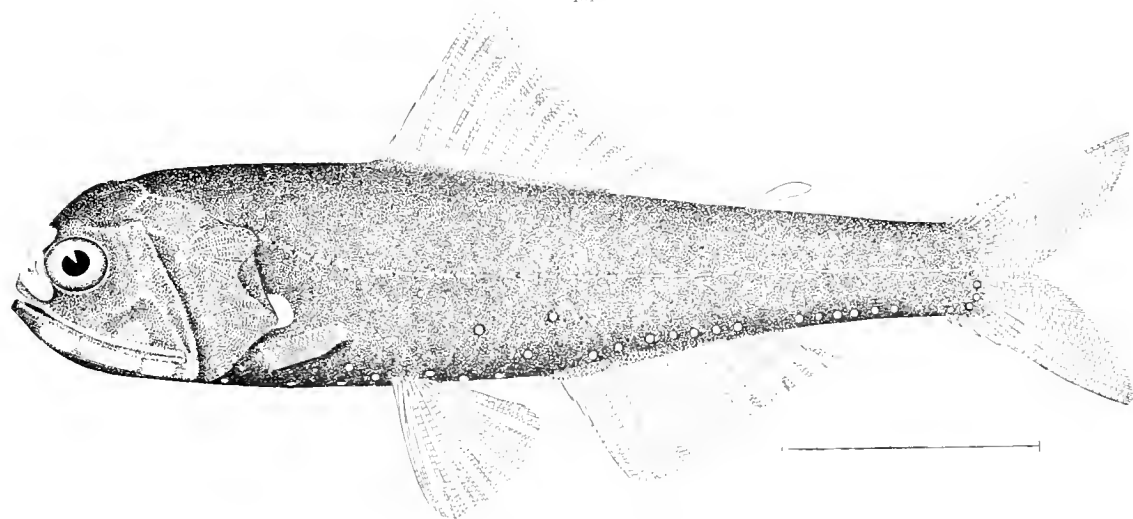


97. NOTOSCOPELUS QUERCINUS. (p. 83.)
99. LAMPADENA SPECULIGERA. (p. 83.)

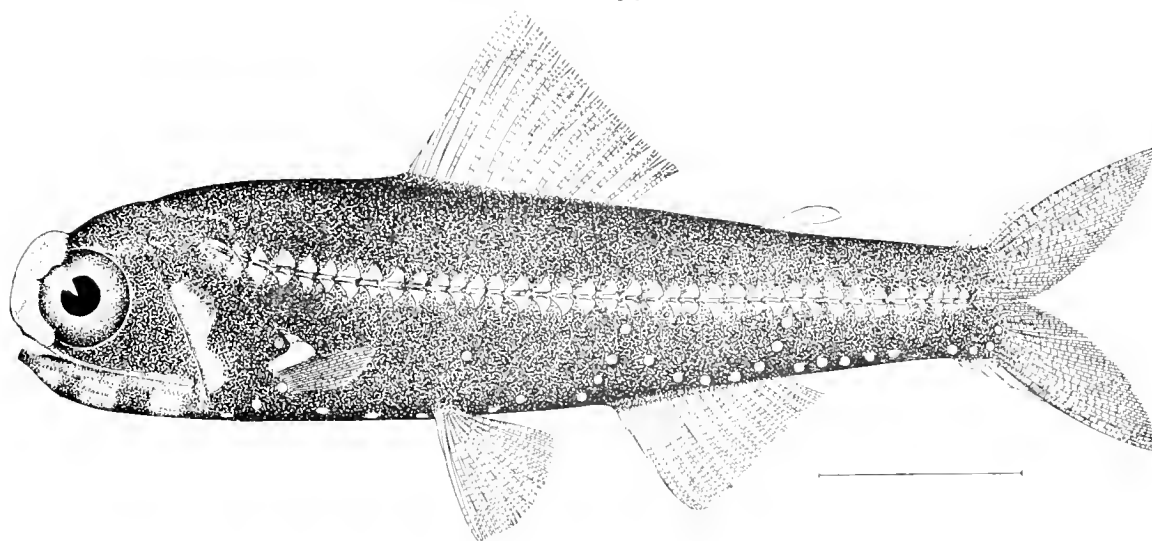
98. NOTOSCOPELUS MARGARITIFERUS. (p. 84.)
100. COLLETTIA RAFINESQUEL. (p. 88.)



101



102

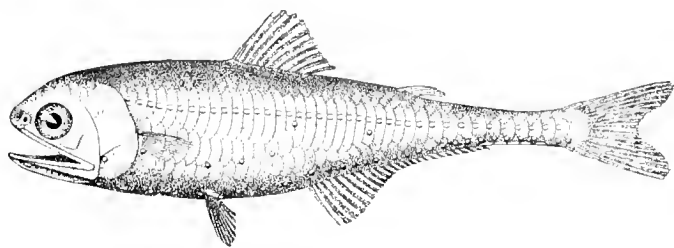


103

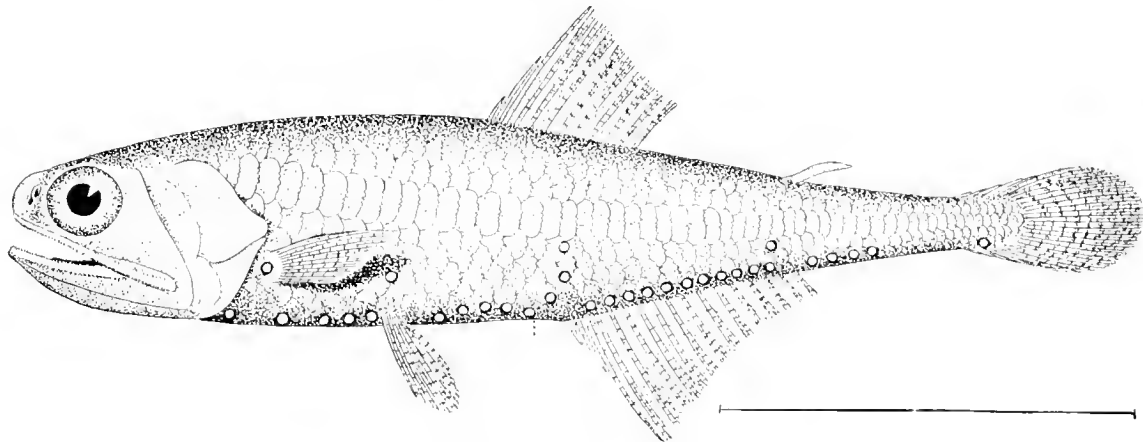
101. *ÆTHOPRORA METOPOCLAMPA*. (p. 87.)

102. *ÆTHOPRORA LUCIDA*. (p. 87.)

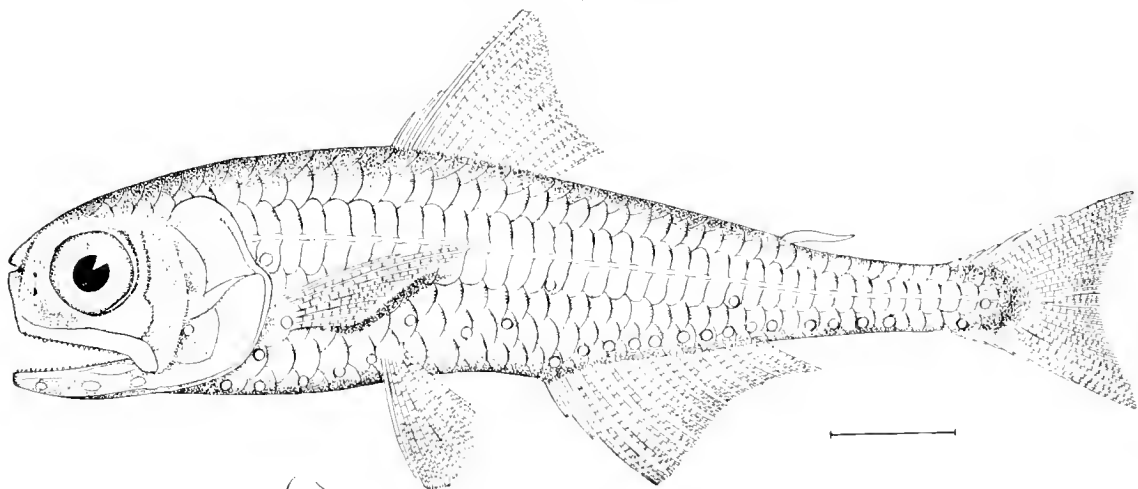
103. *ÆTHOPRORA EFFULGENS*. (p. 87.)



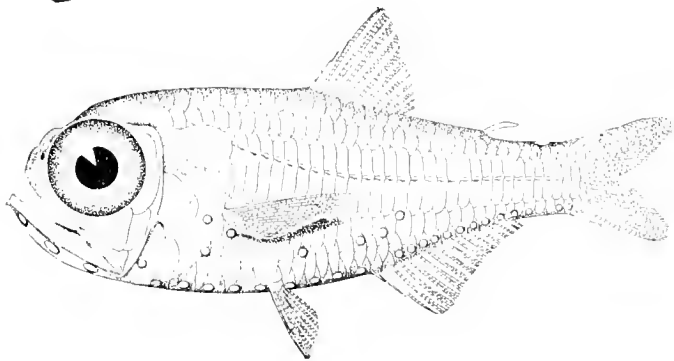
104



105



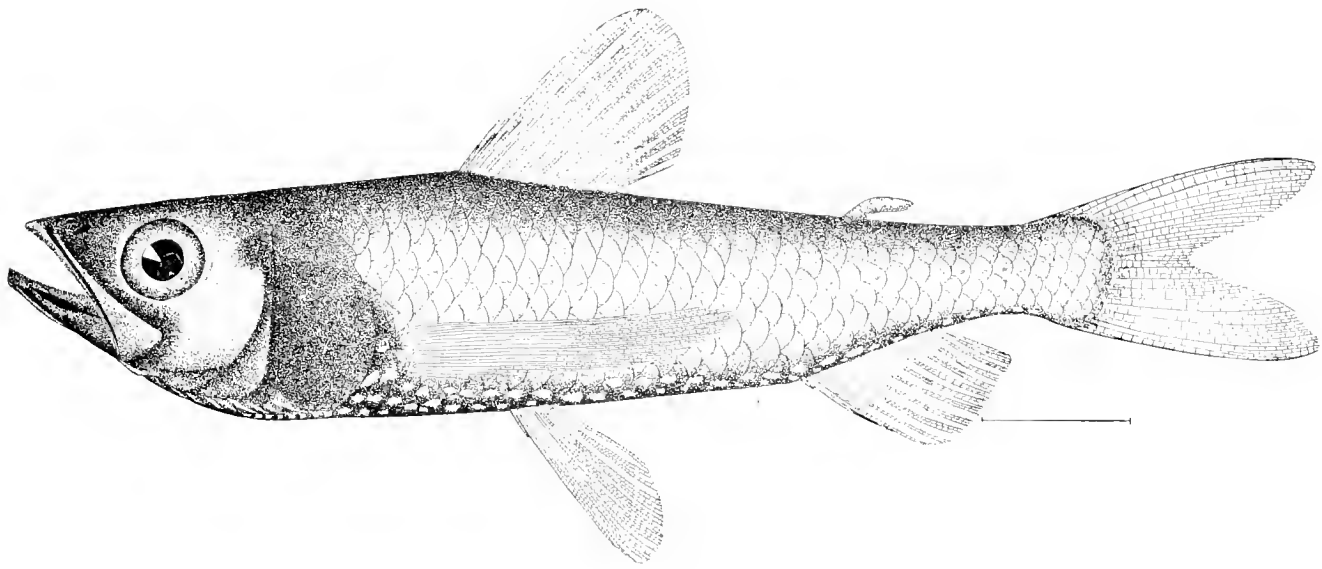
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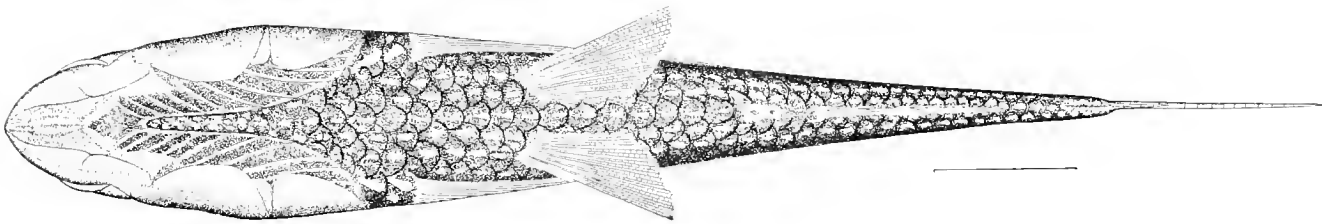
107

104. RHINOSCOPELUS COCCO. (p. 90.)
106. DASYCOPELUS ASPER. (p. 92.)

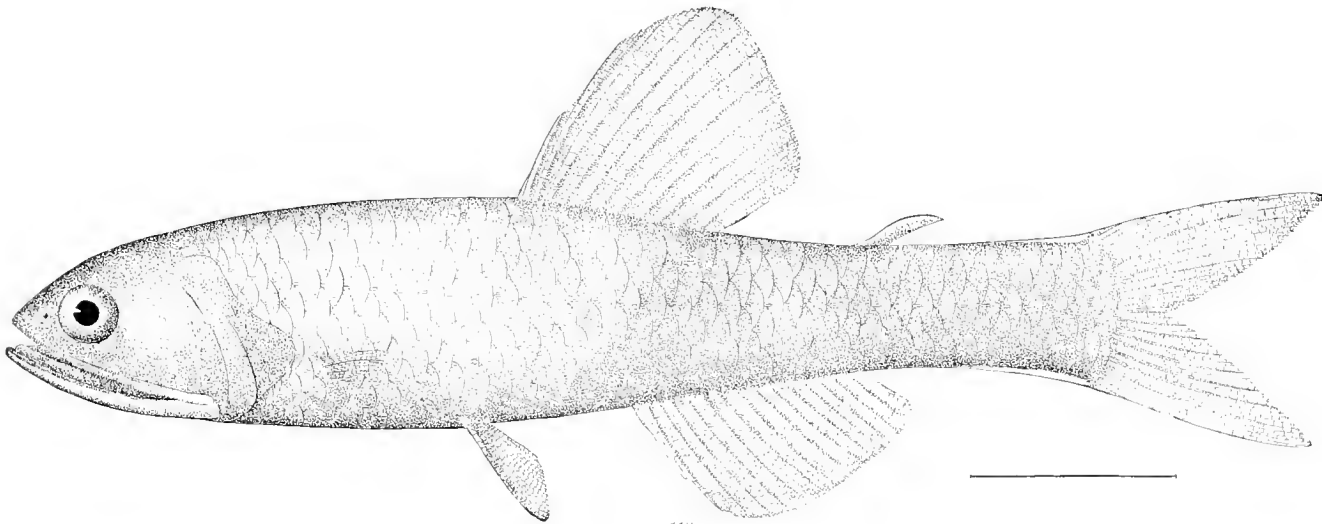
105. TARLETONBEANIA TENUA. (p. 89.)
107. ELECTRONA RISSOL. (p. 91.)



108



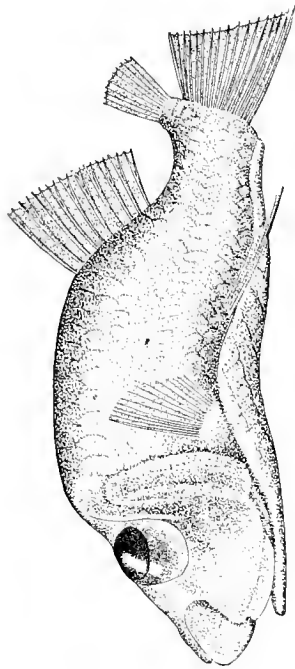
109



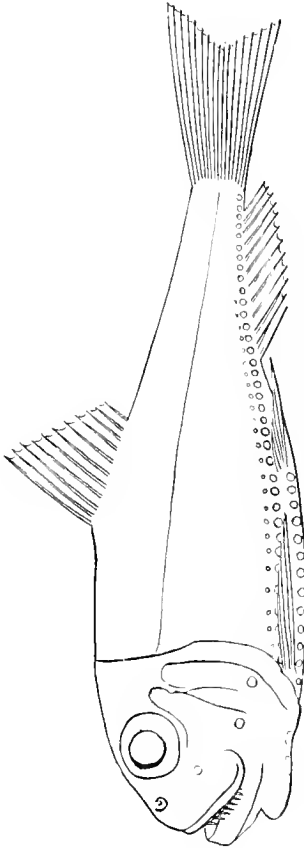
110

108, 109. *NEOSCOPELUS MACROLEPIDOTUS*. (p. 93.)

110. *NANNOBRACHIUM MAC DONALDI*. (p. 94.)



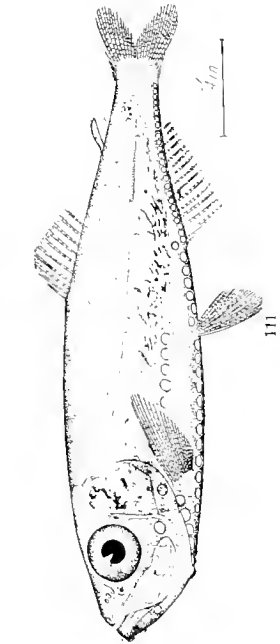
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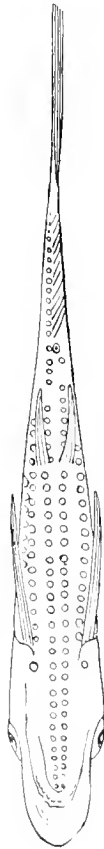
113



114



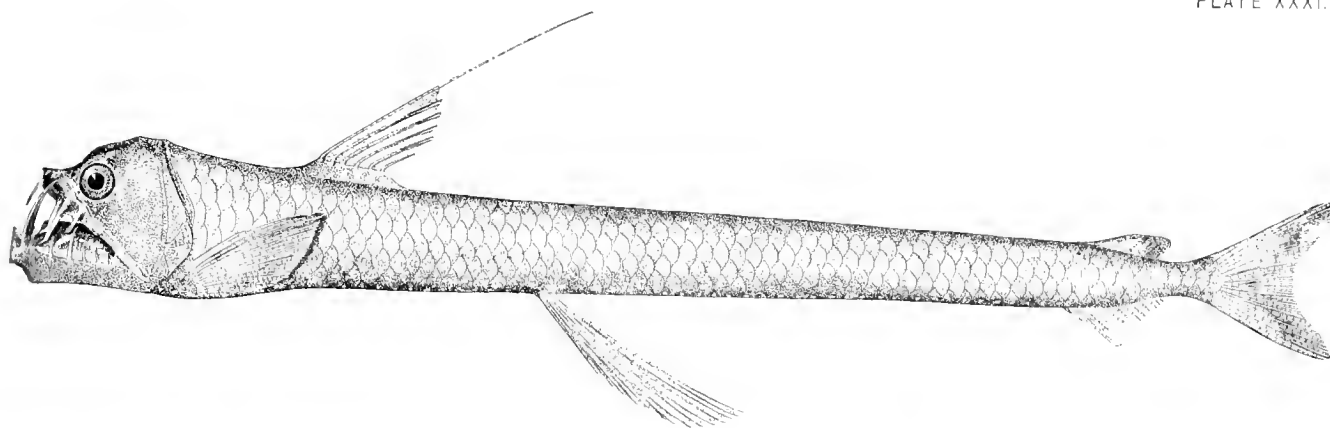
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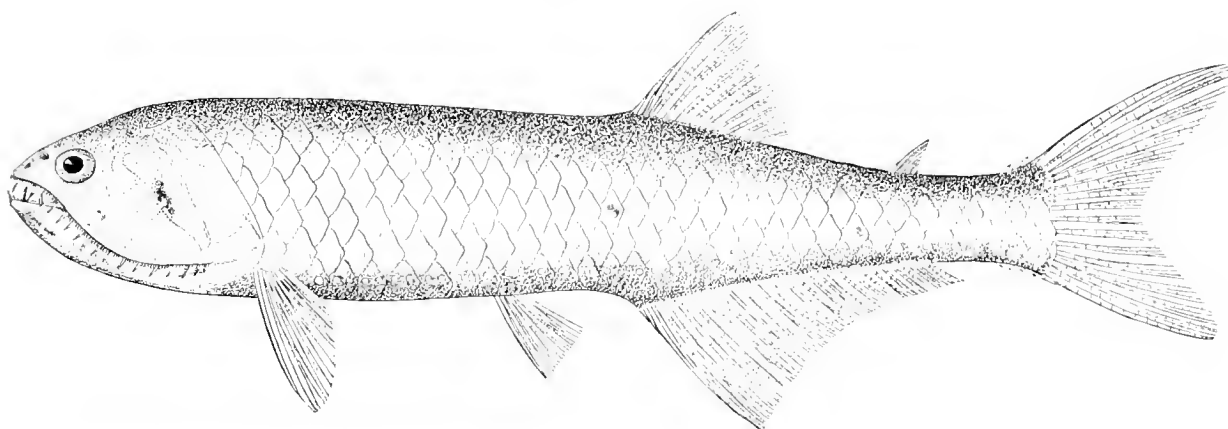
113a

112. OPISTHOPROCTUS SOLEATUS. (p. 95.)
114. CYCLOTHONE MICRODON. (p. 99.)

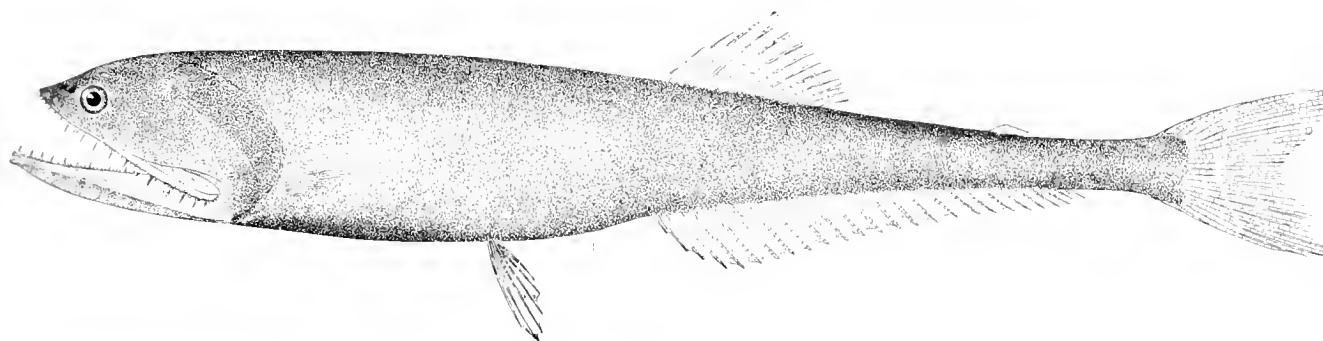
111. MAUROLEUCUS BOREALIS. (p. 96.)
113, 113a. ICHTHYOCOCTUS OVATUS. (p. 95.)



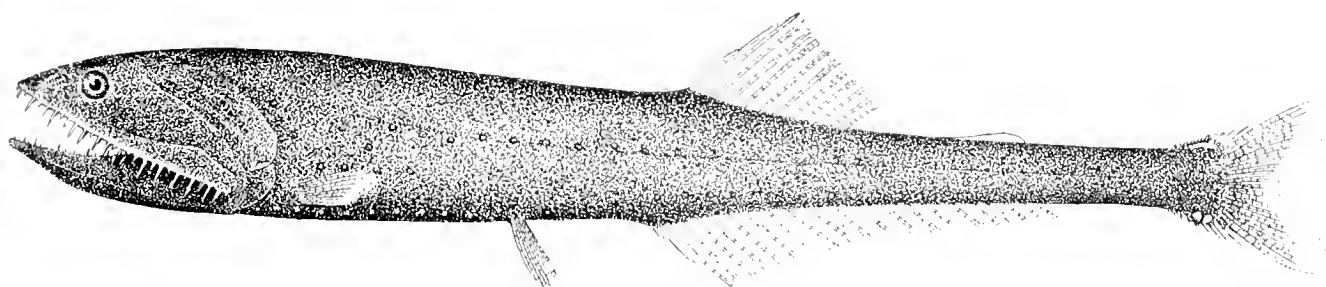
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116



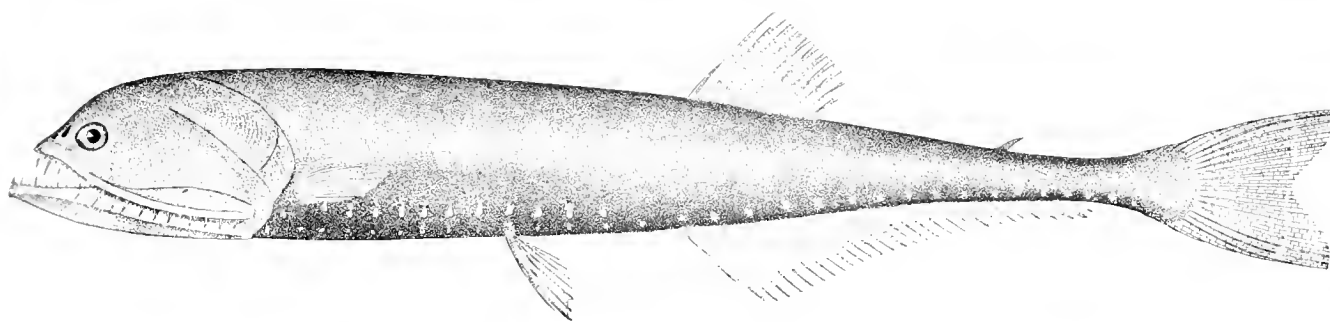
117



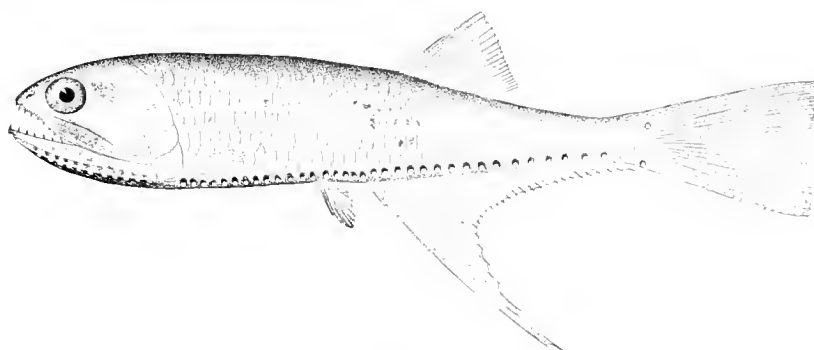
118

115. *CHAULIODUS SLOANI*. (p. 96.)
117. *GONOSTOMA BREVIDENS*. (p. 98.)

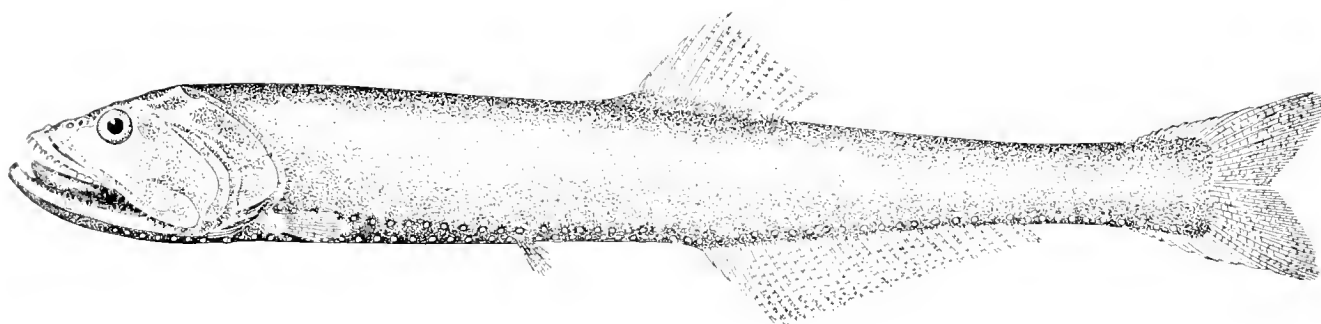
116. *GONOSTOMA DENUDATUM*. (p. 98.)
118. *CYCLOTHONE BATHYPHILA*. (p. 100.)



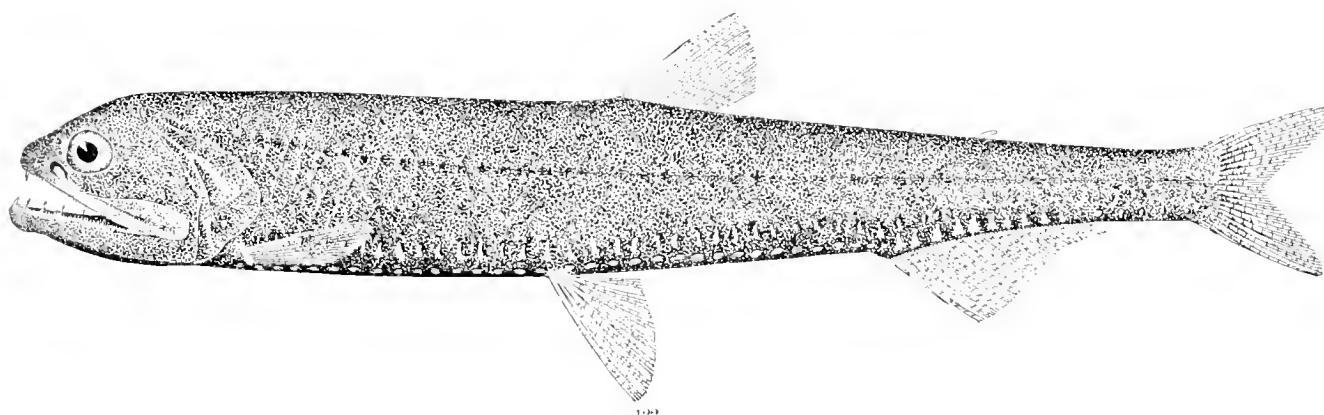
119



120



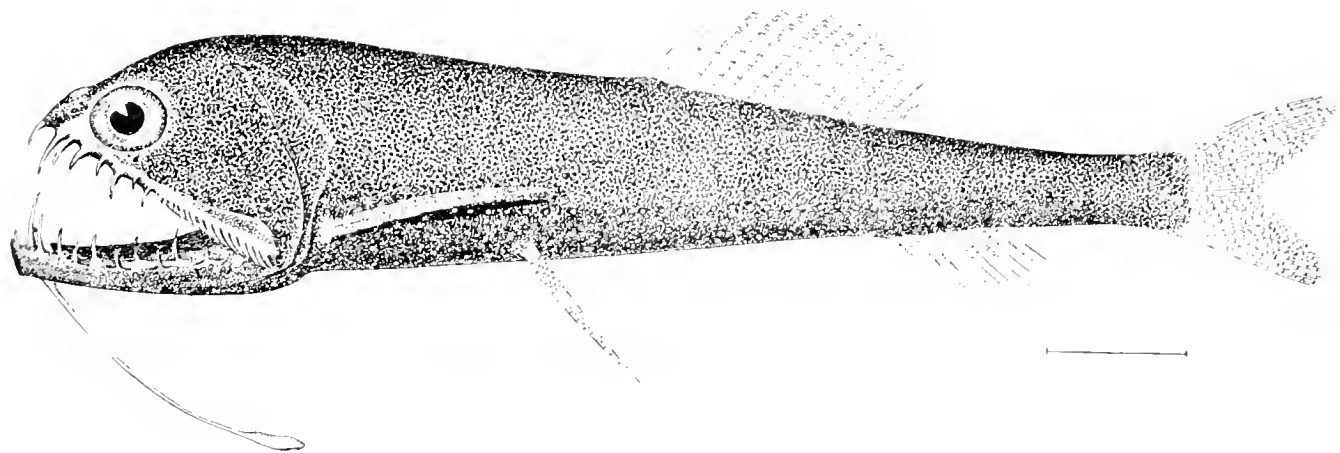
121



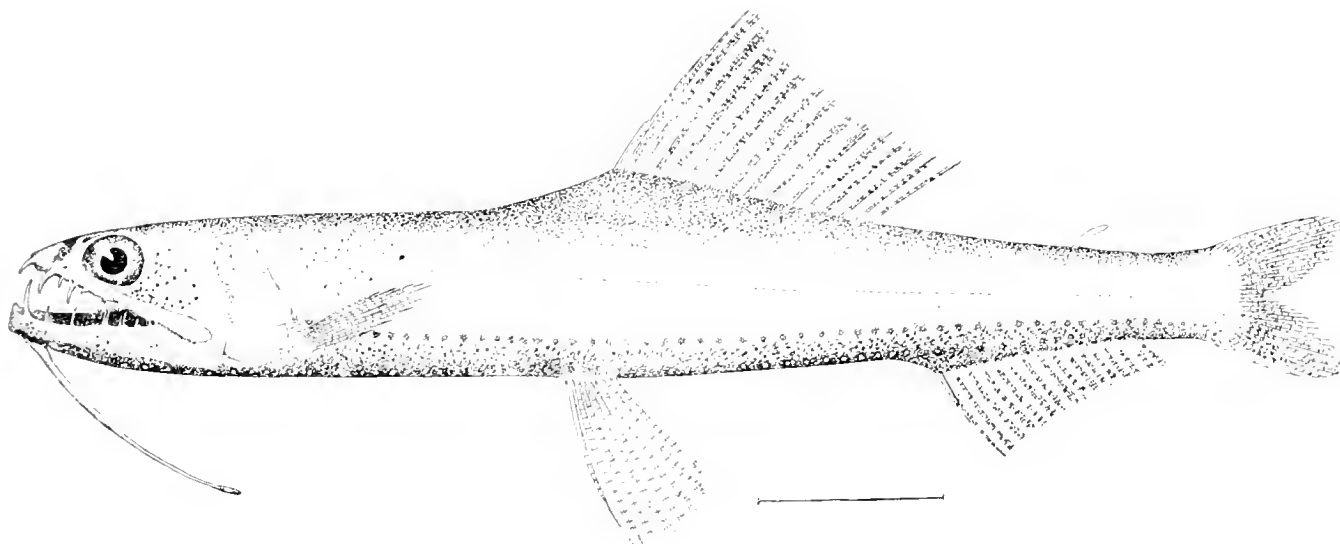
122

119. *CYCLOTHONE ELONGATA*. (p. 101.)
 121. *YARRELLA BLACKFORDI*. (p. 103.)

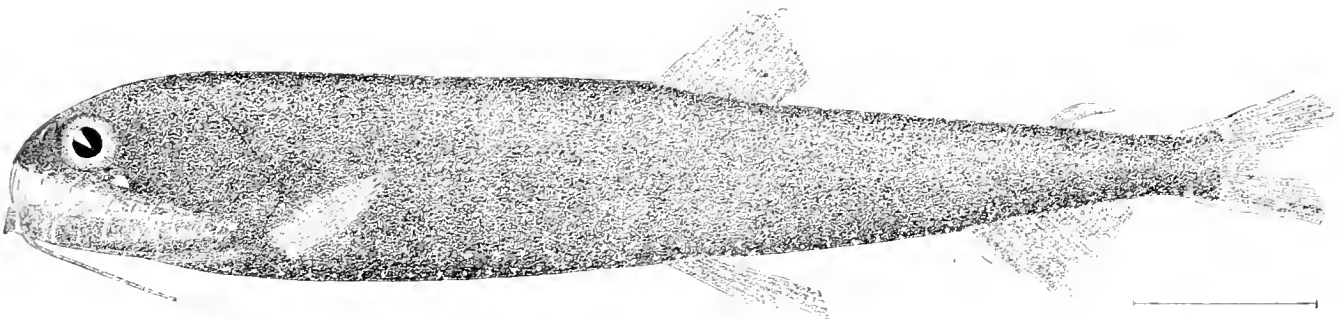
120. *BONAPARTIA PEDALIOTA*. (p. 102.)
 122. *PHOTICHTHYS ARGENTUS*. (p. 104.)



123

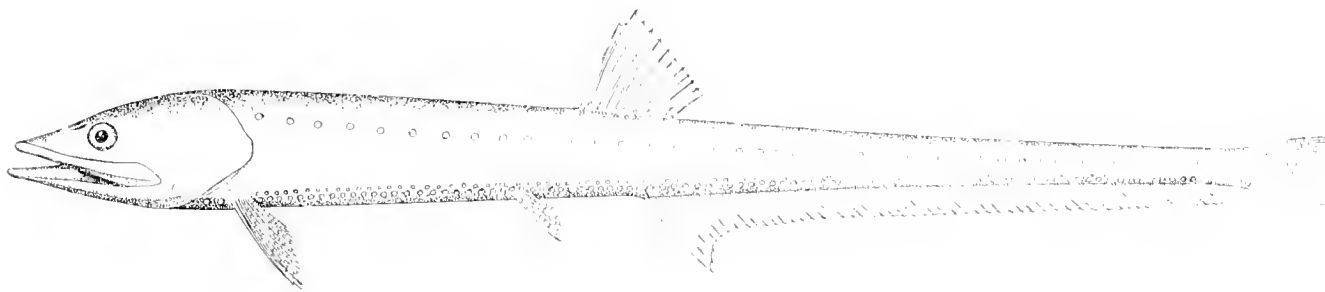


124

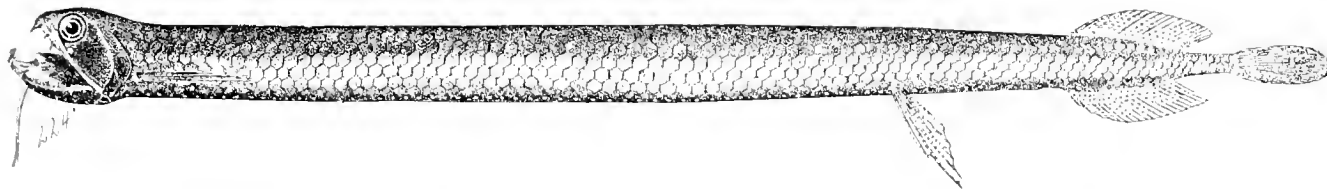


125

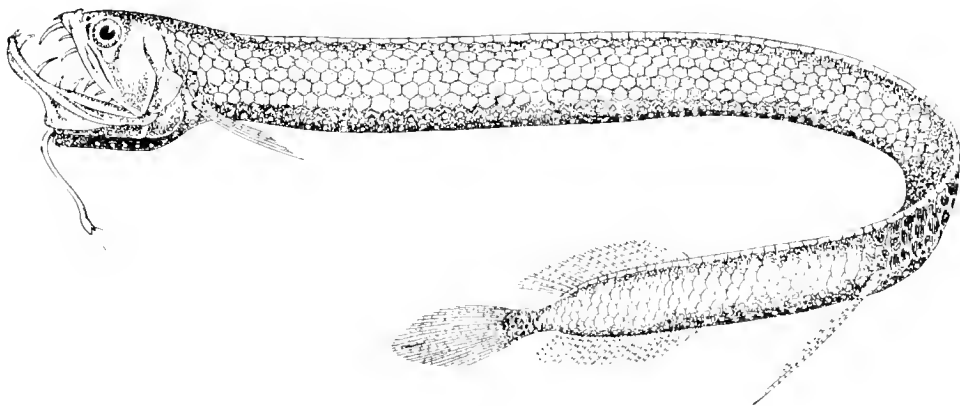
123. *ASTRONESTHES NIGER*. (p. 105.) 124. *ASTRONESTHES GEMMIFER*. (p. 105.) 125. *ASTRONESTHES RICHARDSONI*. (p. 106.)



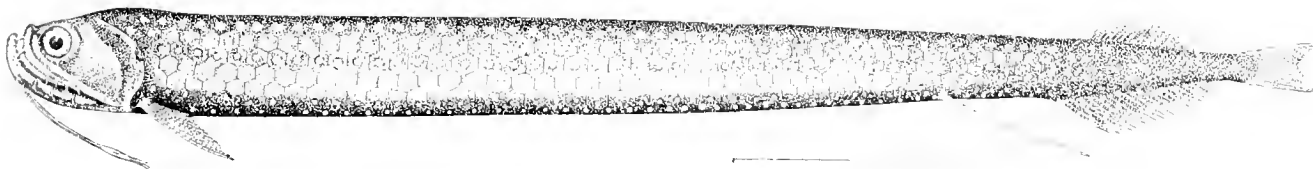
126



127



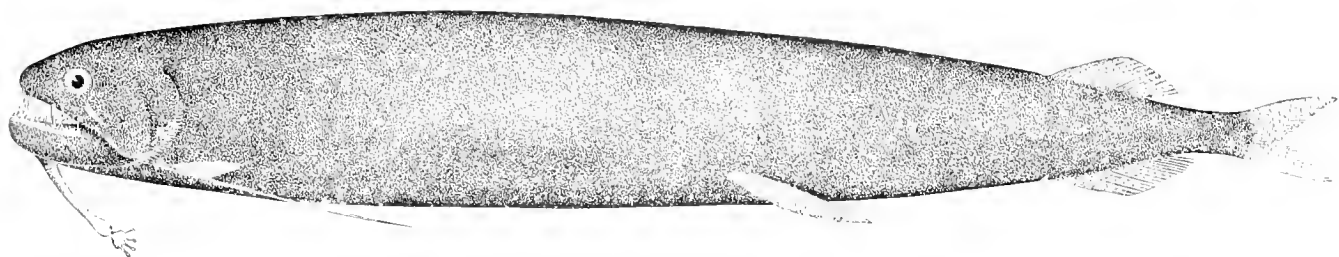
128



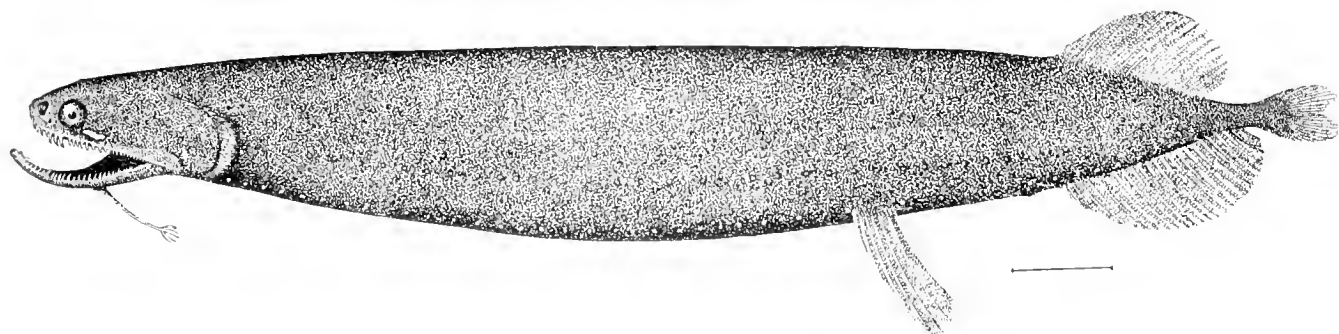
129

126. DIPLOPHOS TENIA. (p. 104.)
128. STOMIAS BOA. (p. 108.)

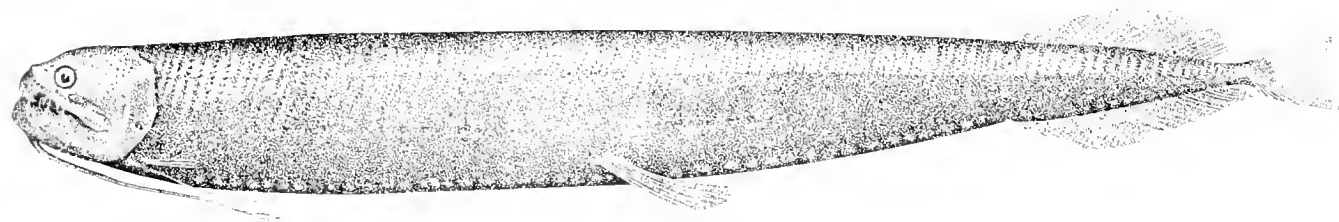
127. STOMIAS FERON. (p. 107.)
129. STOMIAS AFFINIS. (p. 108.)



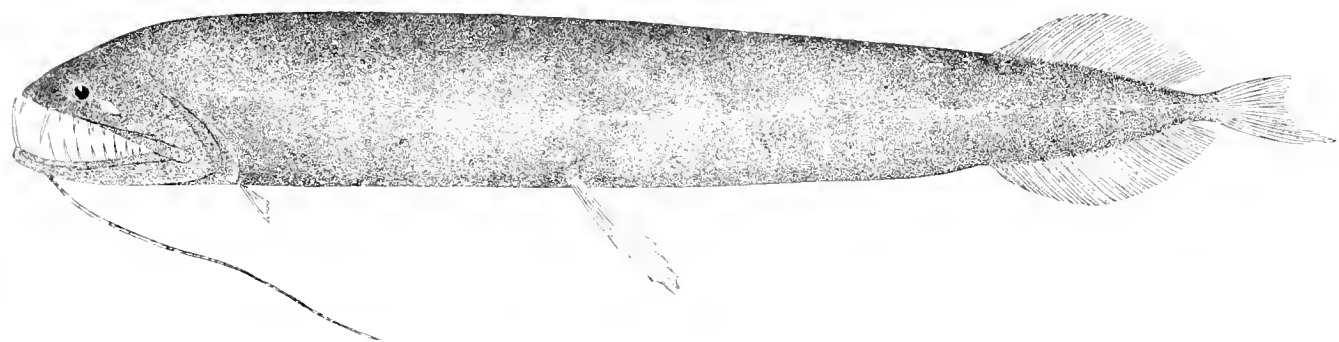
130



131



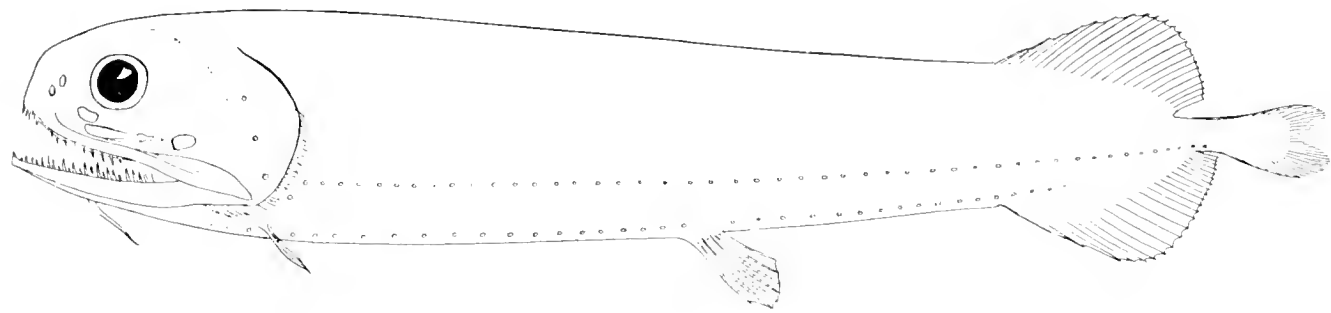
132



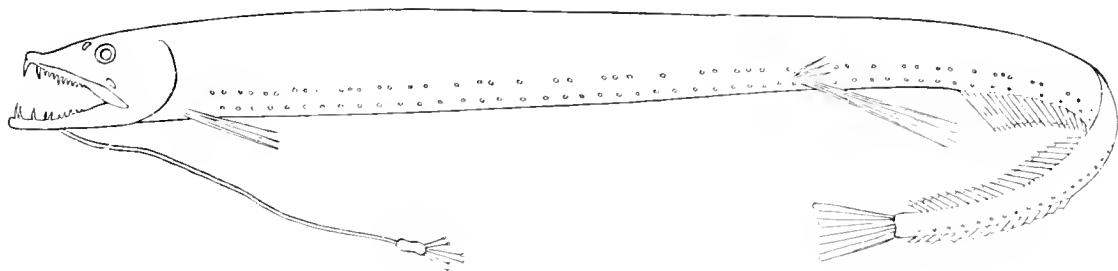
133

130. *ECHIOSTOMA BARBATUM*. (p. 109.)
132. *OPLOSTOMIAS MERIDENSIS*. (p. 110.)

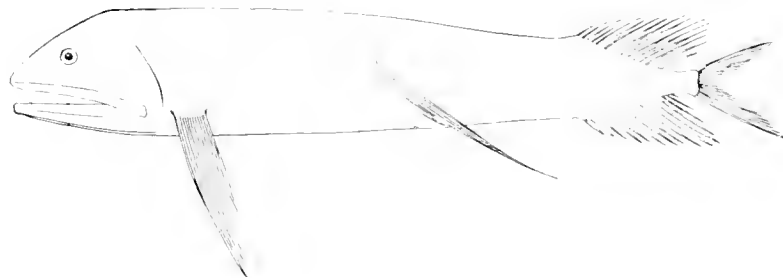
131. *ECHIOSTOMA MARGARITA*. (p. 109.)
133. *GRAMMATOSTOMIAS DENTATUS*. (p. 110.)



134



135



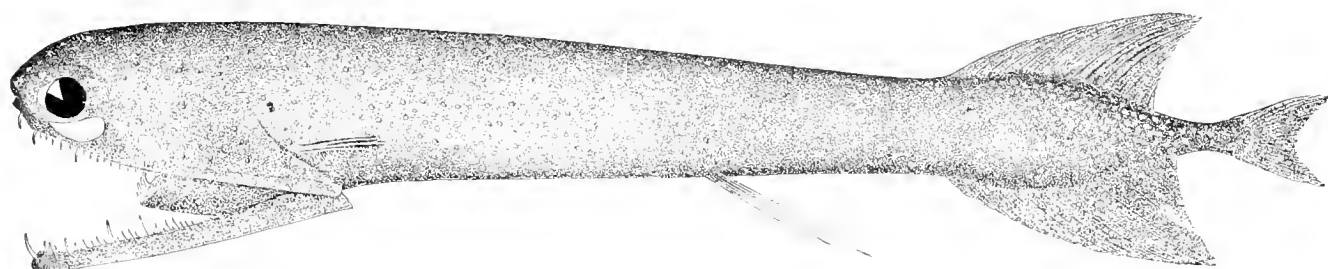
136



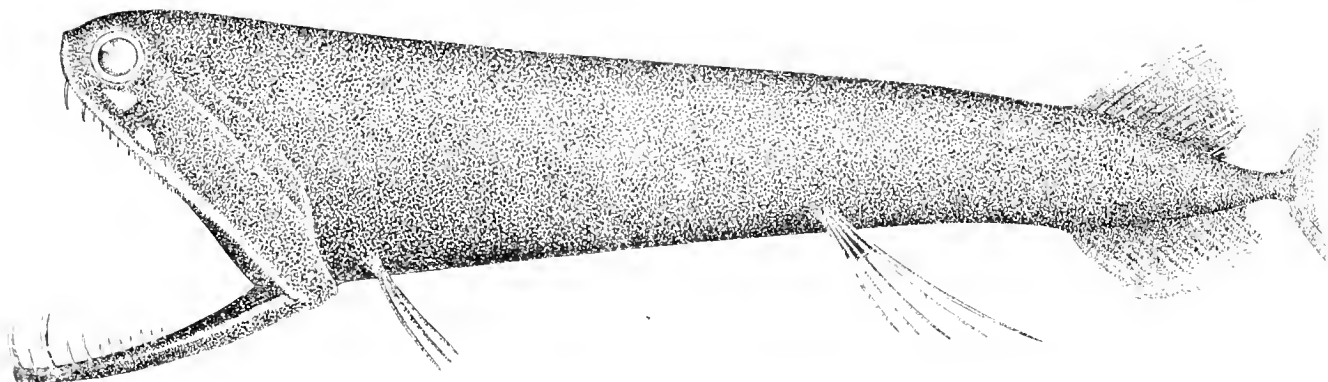
137

134. *PACHYSTOMIAS MICRODON*, (p. 111.)
136. *BATHOPHILUS NIGERIMUS*, (p. 111.)

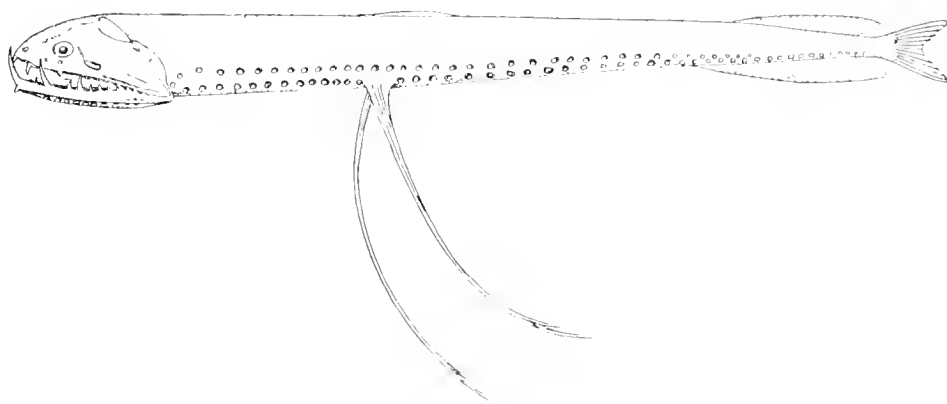
135. *EUSTOMIAS OBSCURUS*, (p. 111.)
137. *PHOTOMICTES GRACILIS*, (p. 112.)



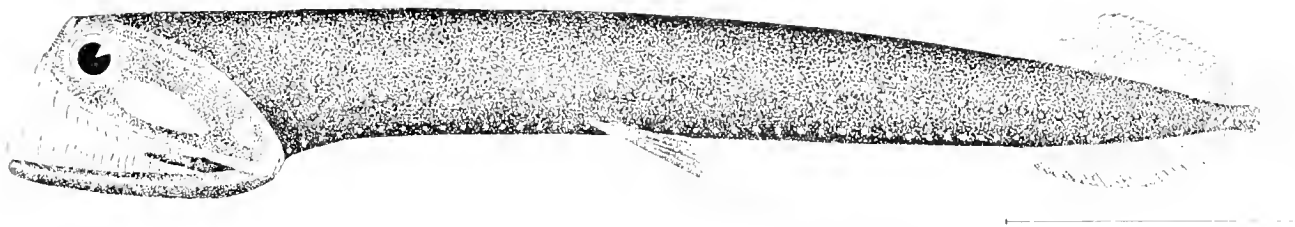
138



139



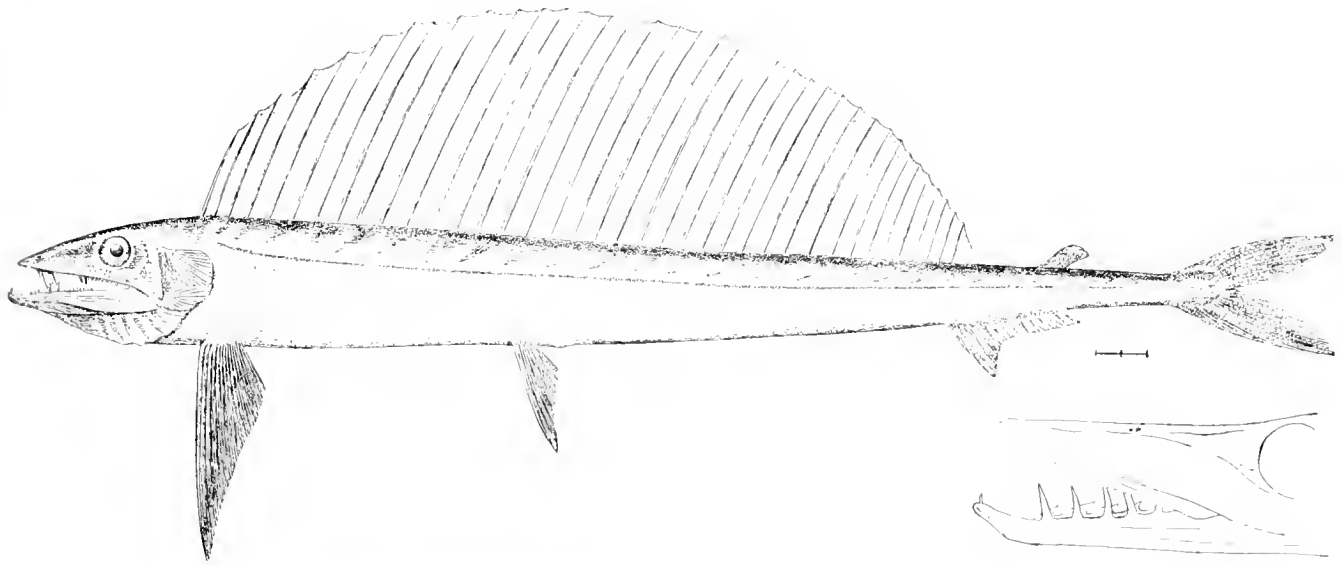
140



141

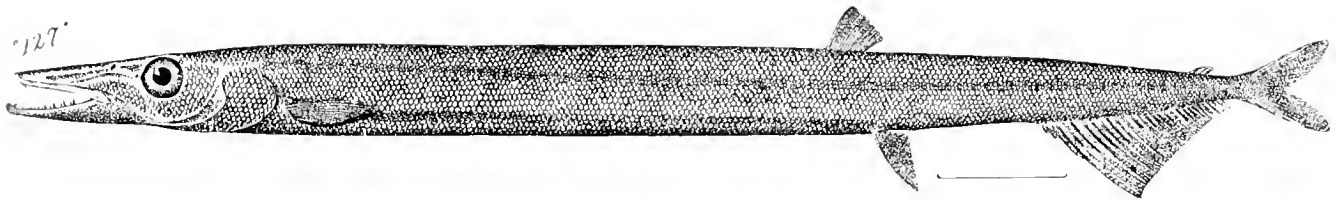
138, MALACOSTEUS NIGER. (p. 114.)
140, PHOTOSTOMIAS GRENEL. (p. 115.)

139, MALACOSTEUS CHORISTODACTYLUS. (p. 114.)
141, THAUMATOSOMIAS ATROX. (p. 115.)

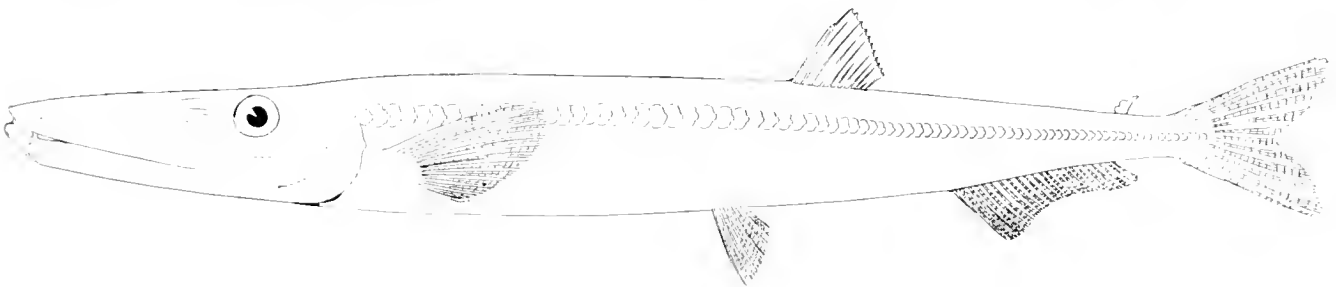


142

143a



143



144



145

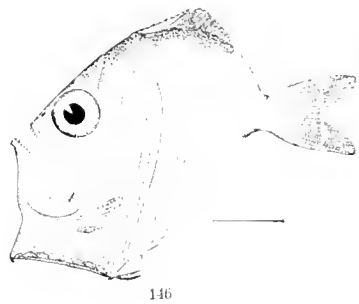
142. ALEPISAUROS FEROX. (p. 117.)

143a. PARALEPIS COREGONOIDES. (p. 119.)

143. PARALEPIS BOREALIS. (p. 119.)

144. SARDINOPS HYALINA. (p. 121.)

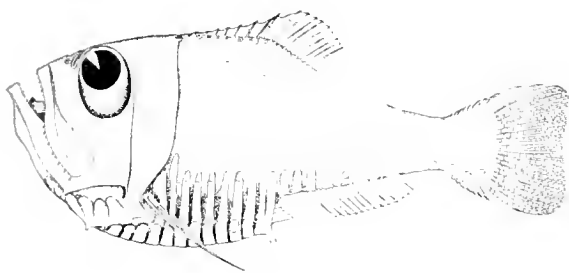
145. ODONTOSTOMUS HYALINUS. (p. 121.)



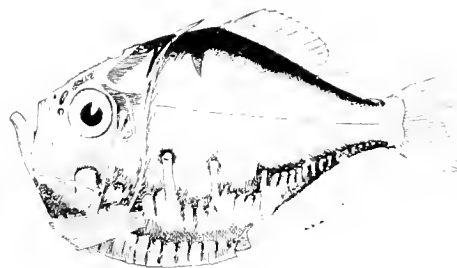
146



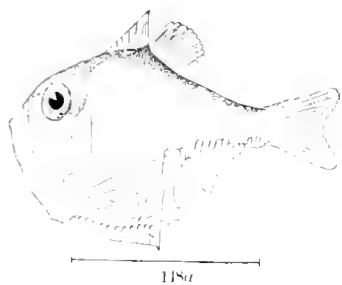
146b



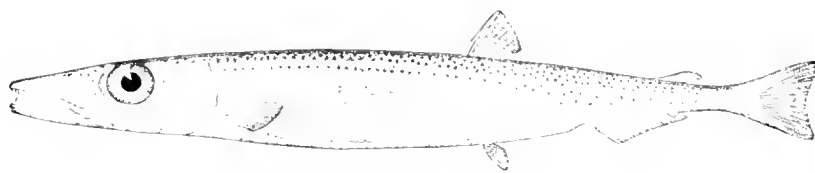
147



148



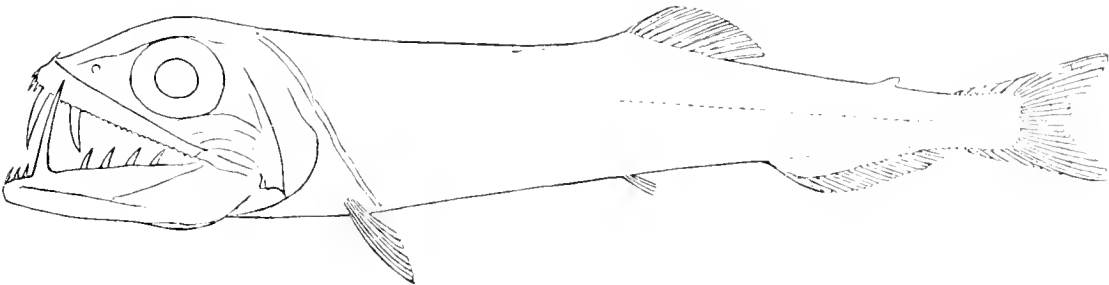
148a



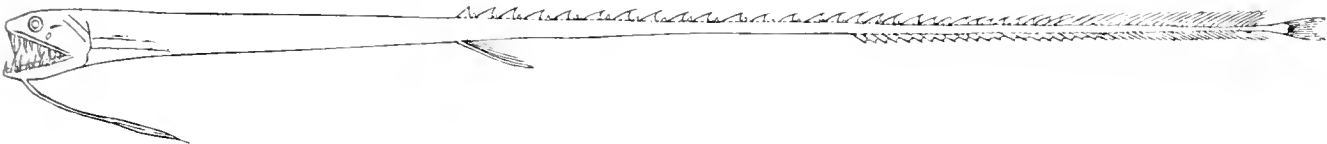
149

146, 146b, *STERNOPTYX DIAPHANA*. (p. 124.)
 148, *POLYPTNUS SPINOSUS*. (p. 128.)
 149, *PARALEPTIS COREGONOIDES*. (p. 149.)

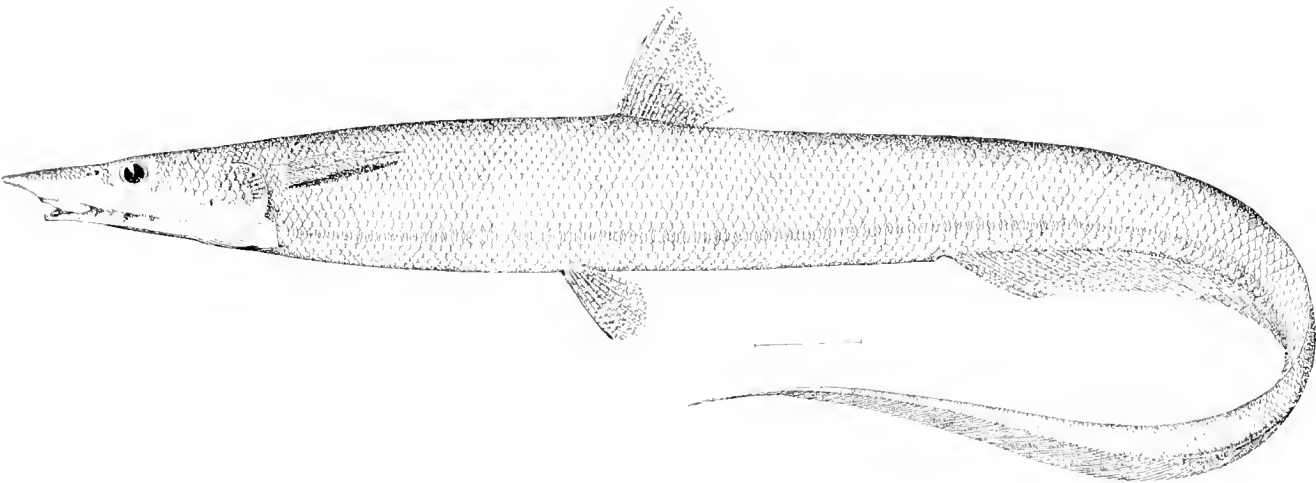
147, *ARGYROPELECTUS HEMIGYMNUS*. (p. 126.)
 148a, *ARGYROPELECTUS OLFFERSII*. (p. 126.)



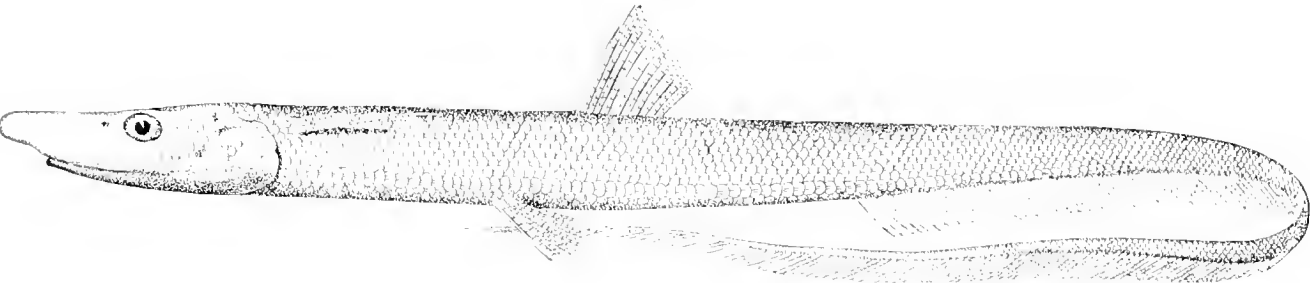
150



151



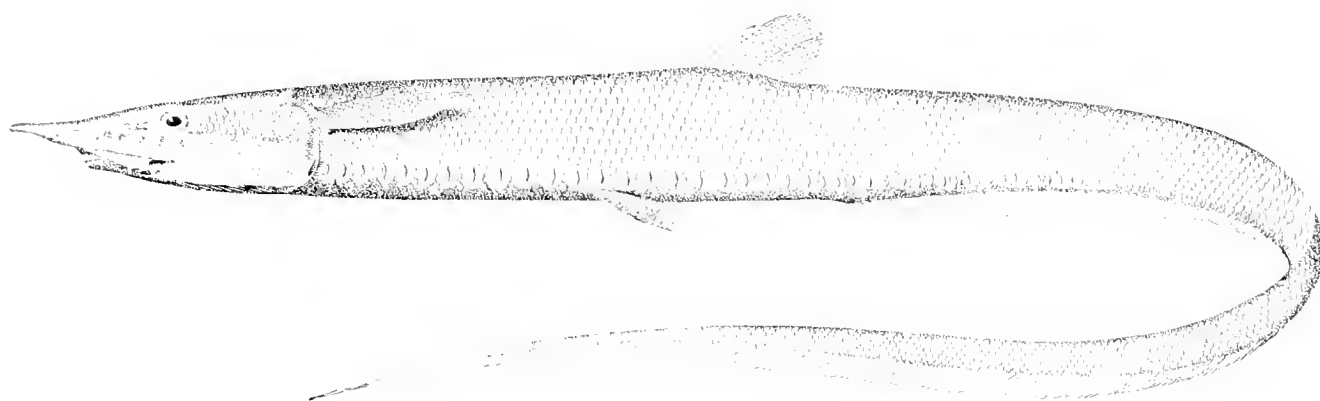
152



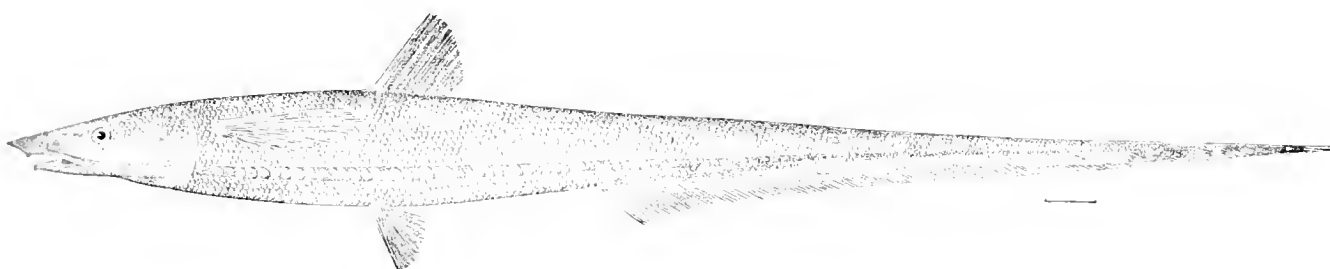
153

150. OMOSUDIS LOWII. (p. 122.)
152. HALOSAURUS OWENI. (p. 130.)

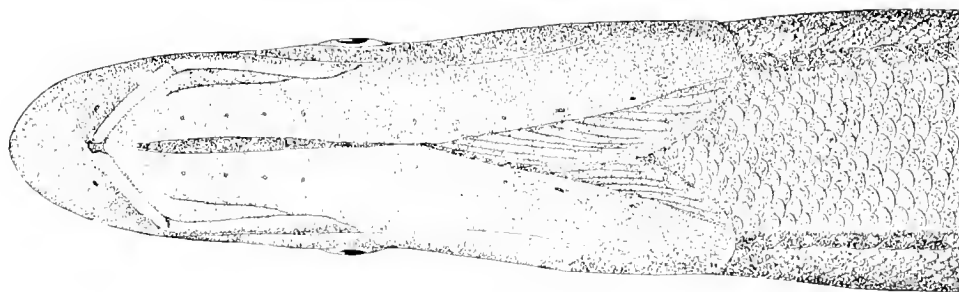
151. IDIACANTHUS FEROX. (p. 129.)
153. HALOSAURUS JOHNSONIANUS. (p. 131.)



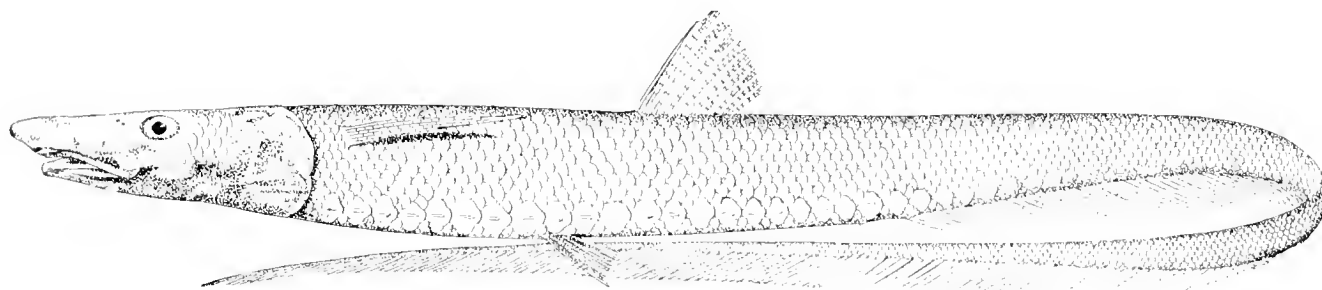
154



155



155a

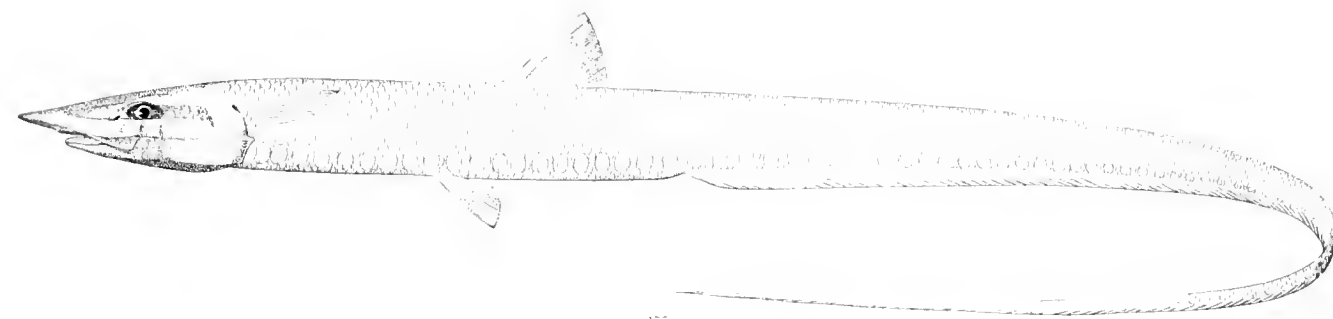


156

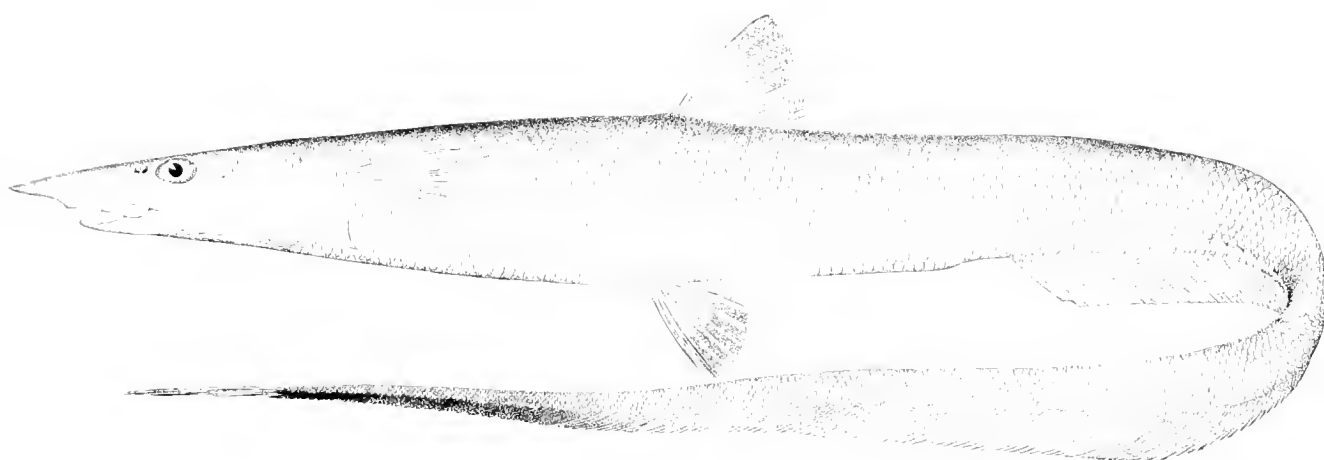
154. ALDROVANDIA ROSTRATA. (p. 132.)

155, 155a. ALDROVANDIA MACROCHIRA. (p. 133.)

156. ALDROVANDIA THALACRUS. (p. 134.)



157



158



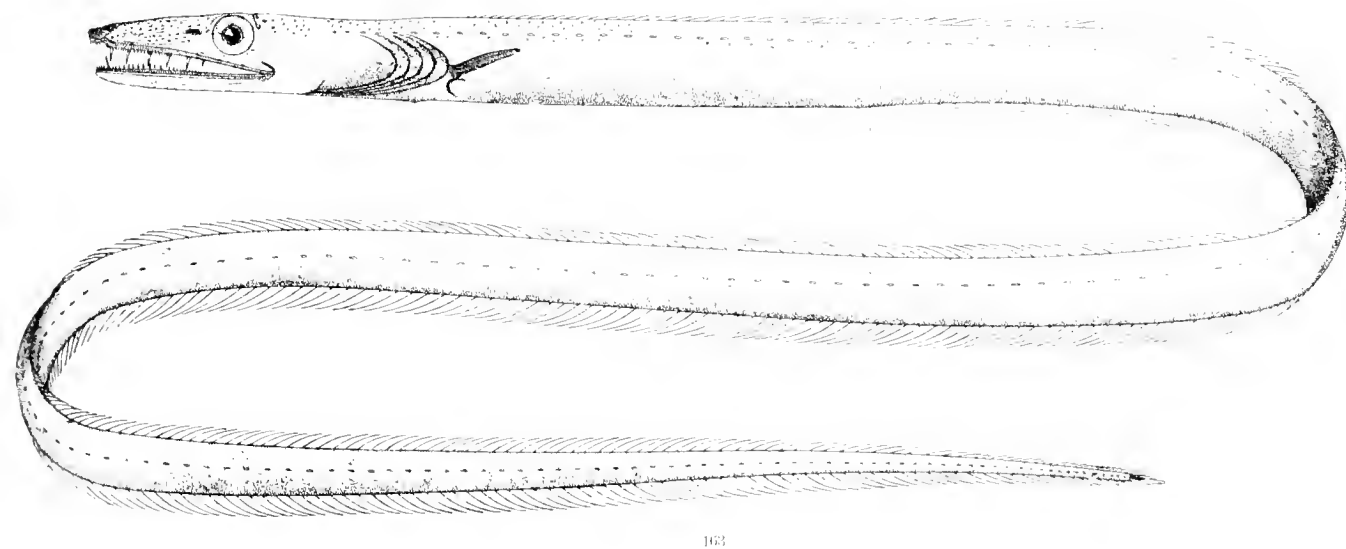
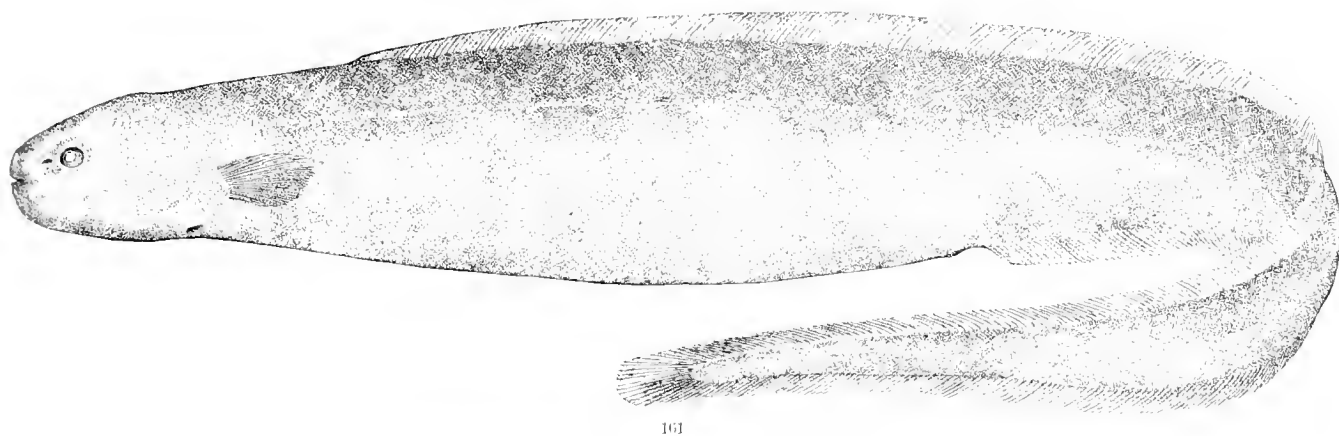
159



160

157. *ALDROVANDIA GRACILIS*. (p. 134.)
159. *CONGERMURENA FLAVA*. (p. 138.)

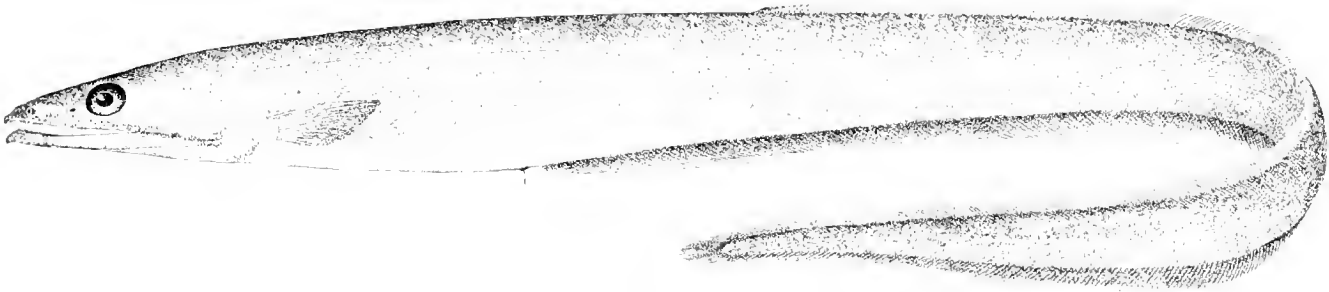
158. *ALDROVANDIA PALLIDA*. (p. 135.)
160. *UROCONGER VICINUS*. (p. 138.)



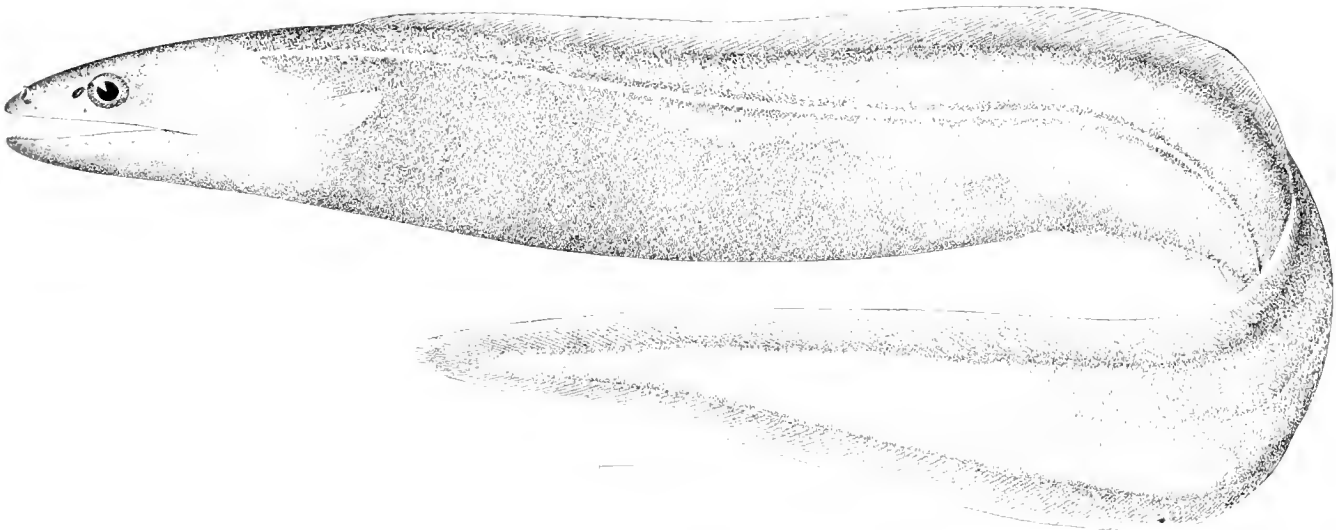
161. SIMENCHELYS PARASITICA. (p. 139.)

162. HETEROPHIS BRUNNEUS. (p. 141.)

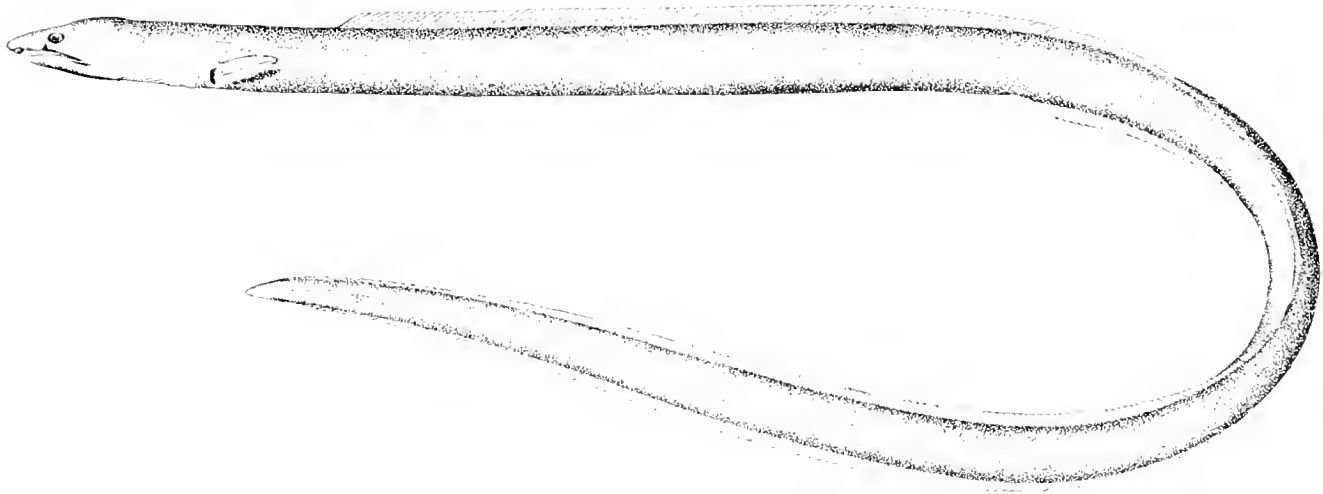
163. HOPLUNNIS DIOMEDEANUS. (p. 146.)



164

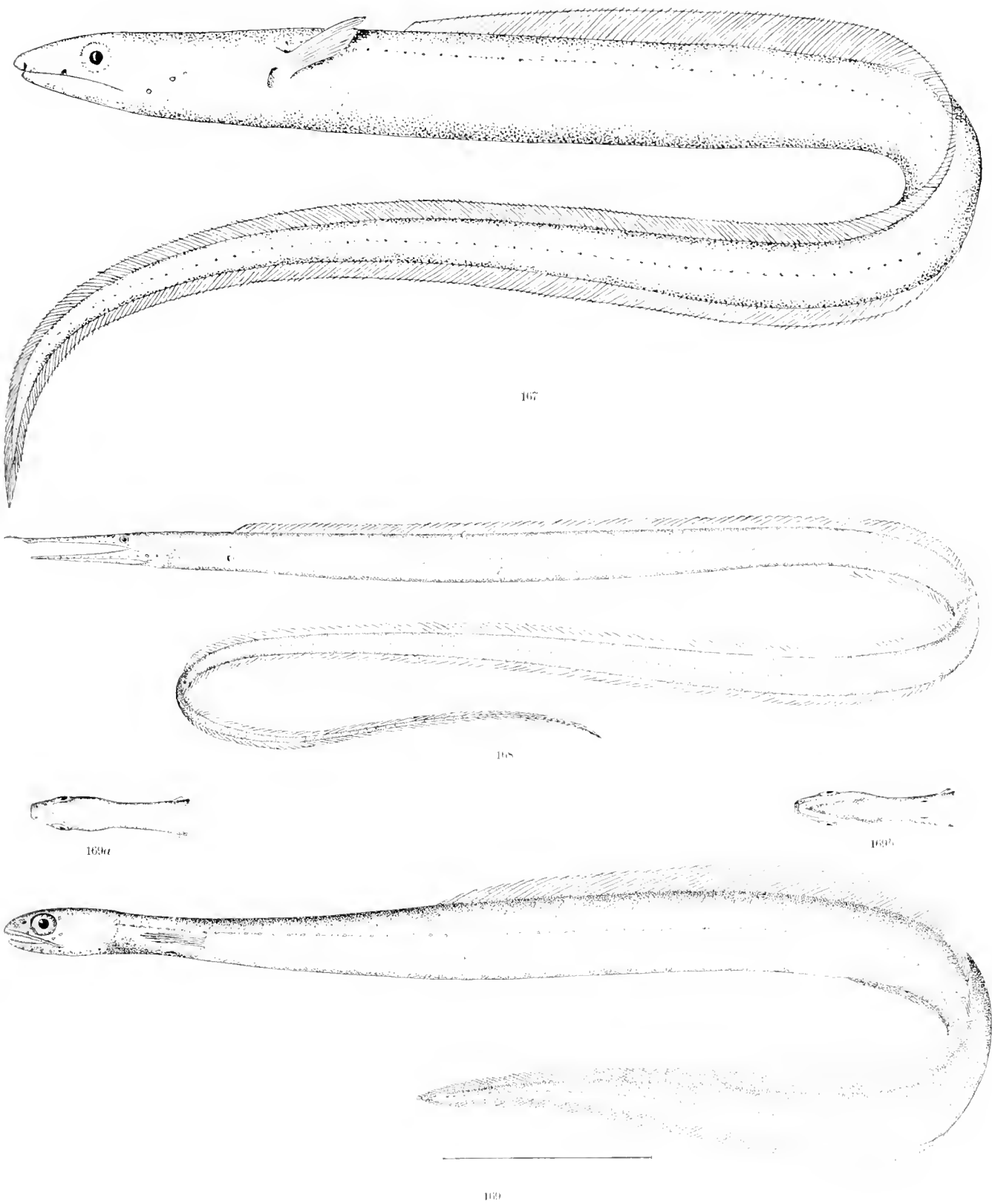


165



166

164. SYNAPHOBANCHUS PINNAE. (p. 143.) 165. HISTIOBRANCHUS INFERNALIS. (p. 145.)
166. PSEUDOPOGONIUS CRUENTIFER. (p. 147.)



167. MYRUS PACHYRHYNCHUS. (p. 148.)
168. VENEFICA PROCTRA. (p. 149.)
169, 169a, b. DERICHTHYS SERPENTINUS. (p. 161.)



170

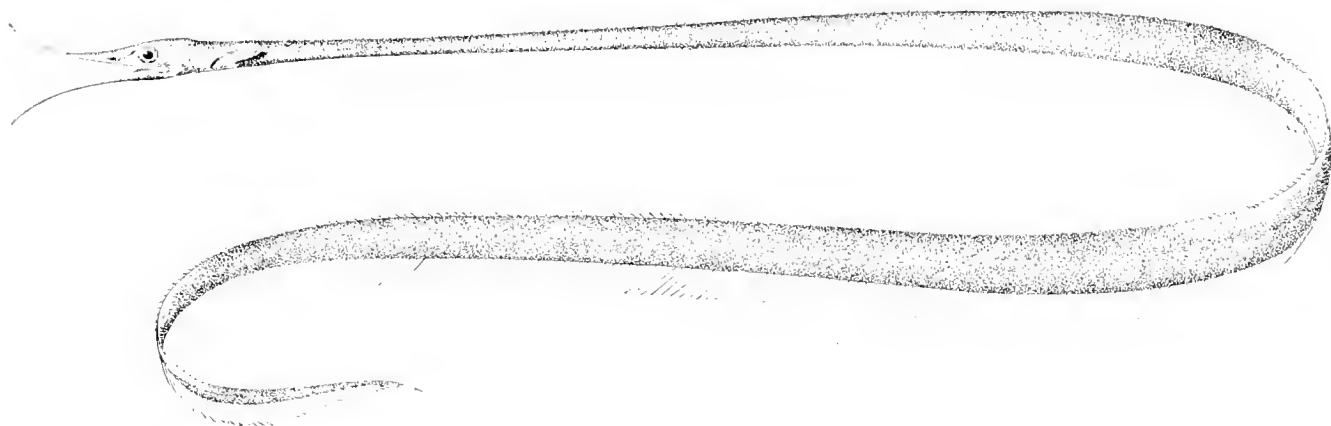


171



172

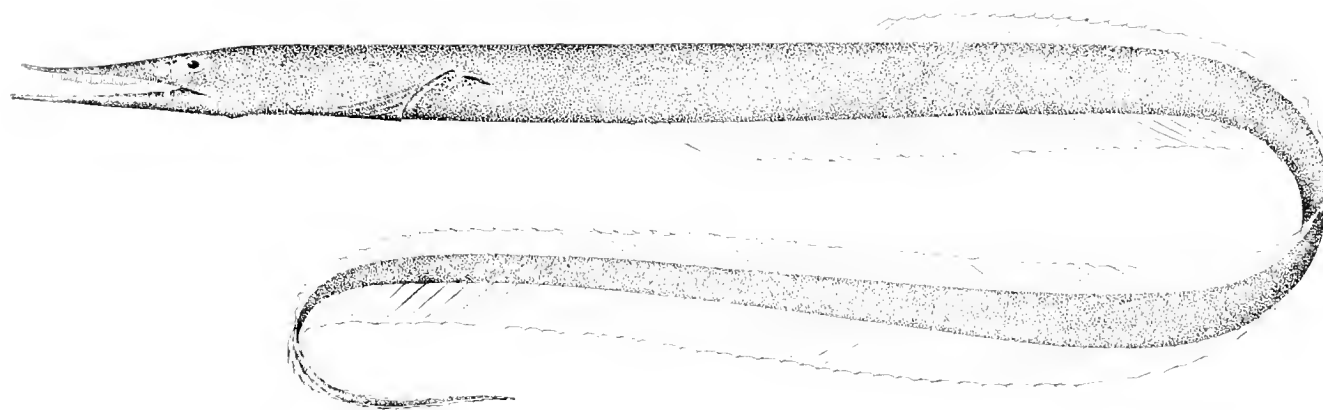
170. NEMICHTHYS SCOLOPACEUS. (p. 152.) 171. LABICHTHYS CARINATUS. (p. 153.)
172. LABICHTHYS ELONGATUS. (p. 153.)



173



174



175

173. LABRITHYS INFANS. (p. 153.)

174. LABRITHYS INFANS (AFTER GÜNTHER). (p. 153.)

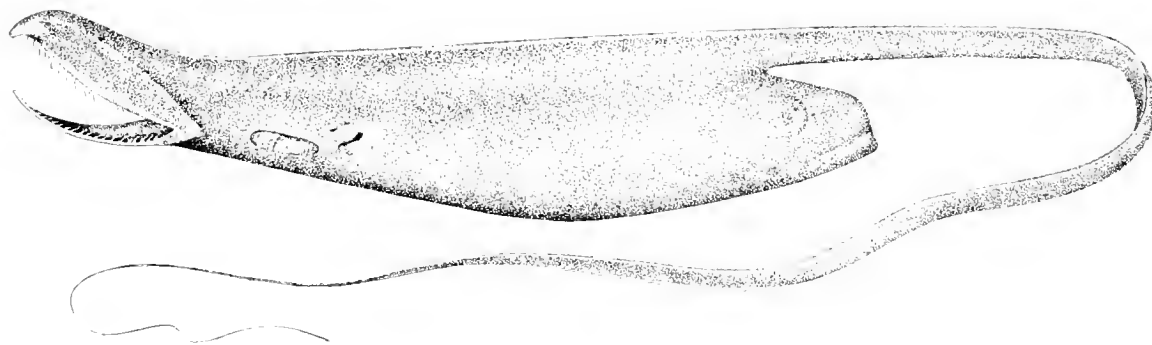
175. SERRIVOMER BEANII. (p. 155.)



176



177



178

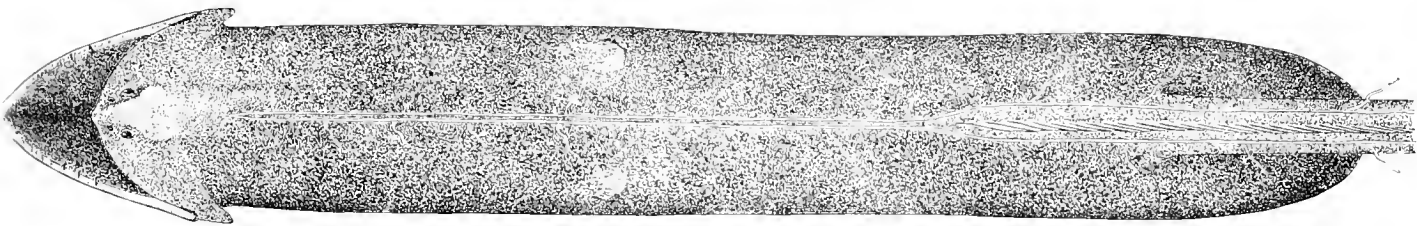
176. CYEMA ATRUM. (p. 151.)

177. EURYPHARYNX PLECANOIDES. (p. 157.)

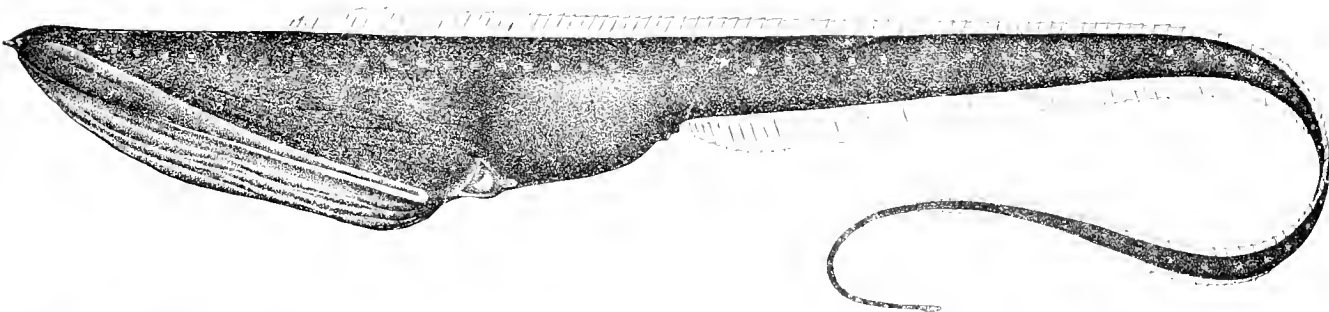
178. SACCOPHARYNX FLAGELLUM. (p. 159.)



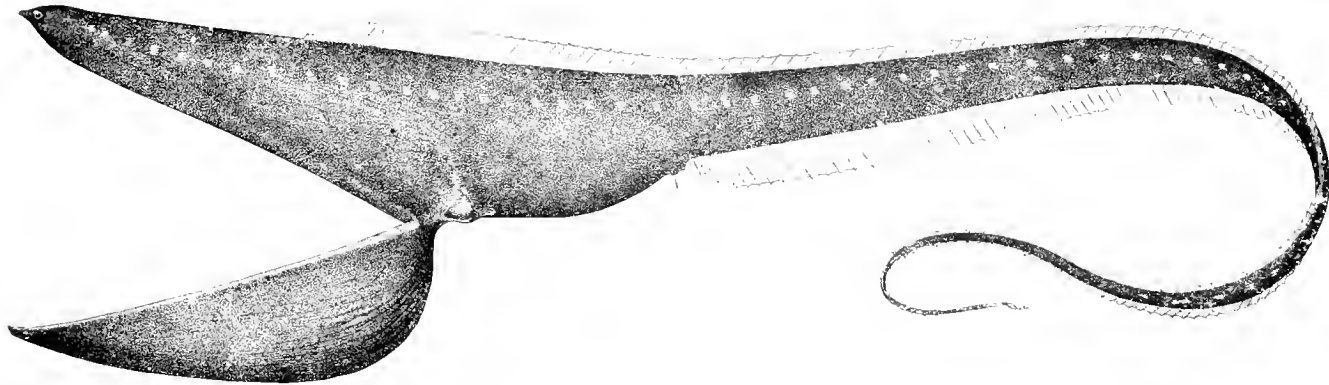
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180



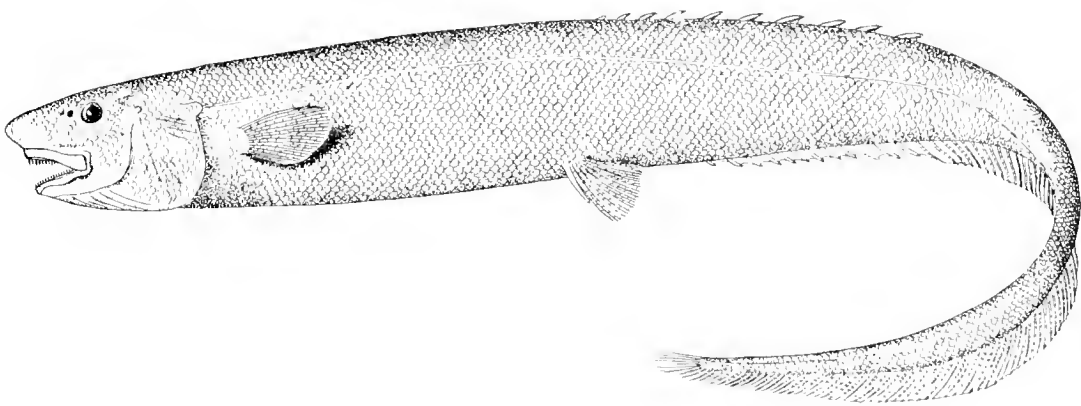
181



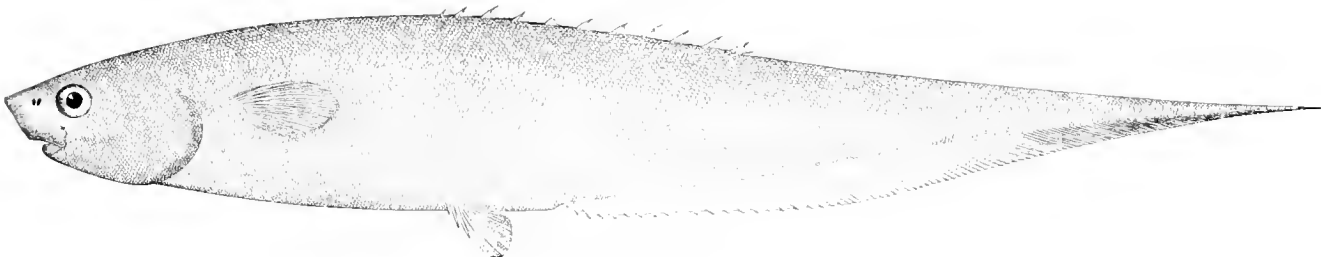
182

179, 180. *Saccopharynx* flagellum. (p. 157.)

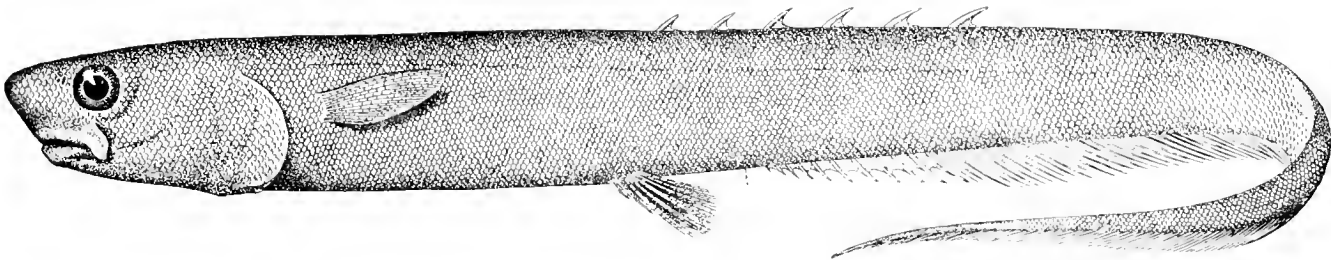
181, 182. *Gastrostomus* bairdii. (p. 159.)



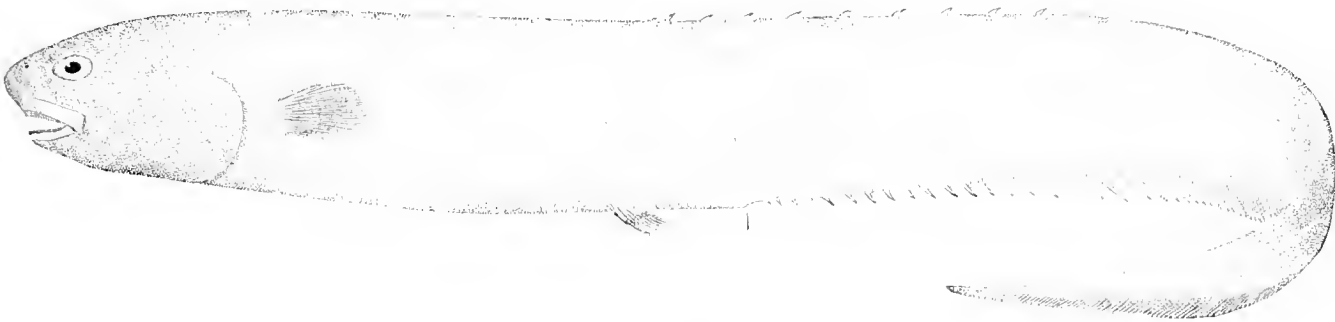
183



184



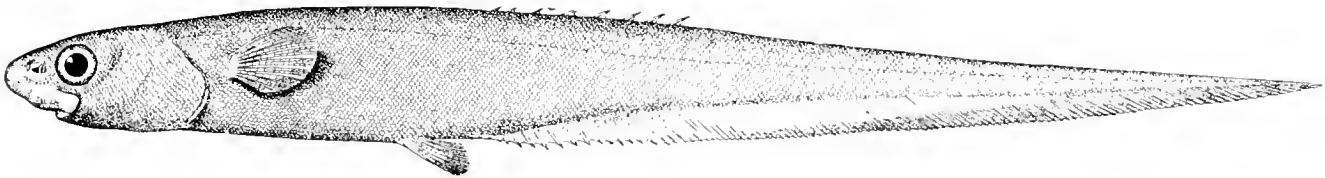
185



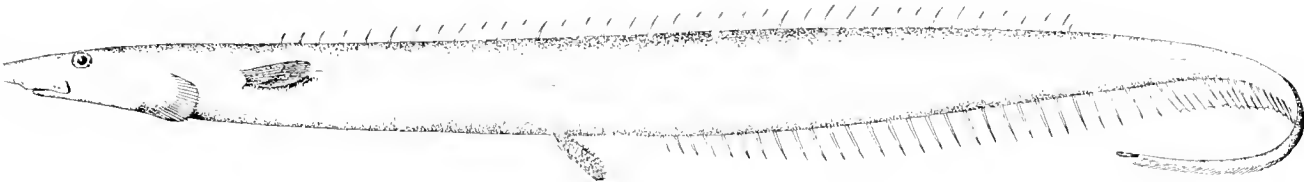
186

183. NOTACANTHUS NASUS. (p. 161.)
185. NOTACANTHUS BONAPARTII. (p. 166.)

184. NOTACANTHUS ANALIS. (p. 165.)
186. NOTACANTHUS PHALANGOPUS. (p. 167.)



187



188



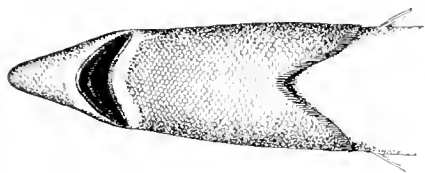
189



190

187. *GIGLIGLIA* MOSELEYI. (p. 169.)
189. *MACDONALDIA* ROSTRATA. (p. 171.)

188. *POLYACANTHONOTUS* RISSOANUS. (p. 170.)
190. *LIPOGENYS* GILII. (p. 173.)



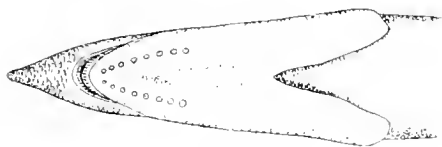
191a.



192a.



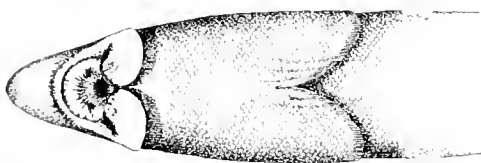
193



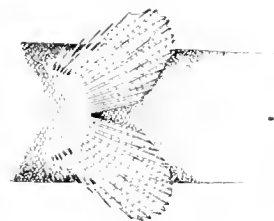
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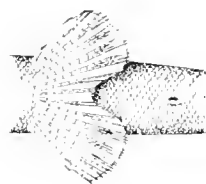
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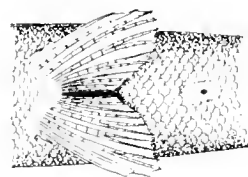
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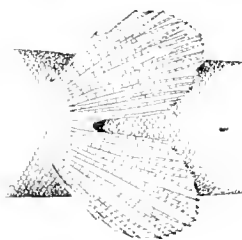
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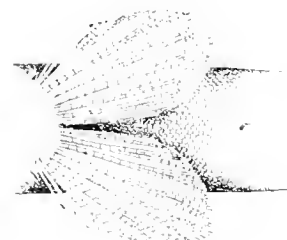
192b.



194b.



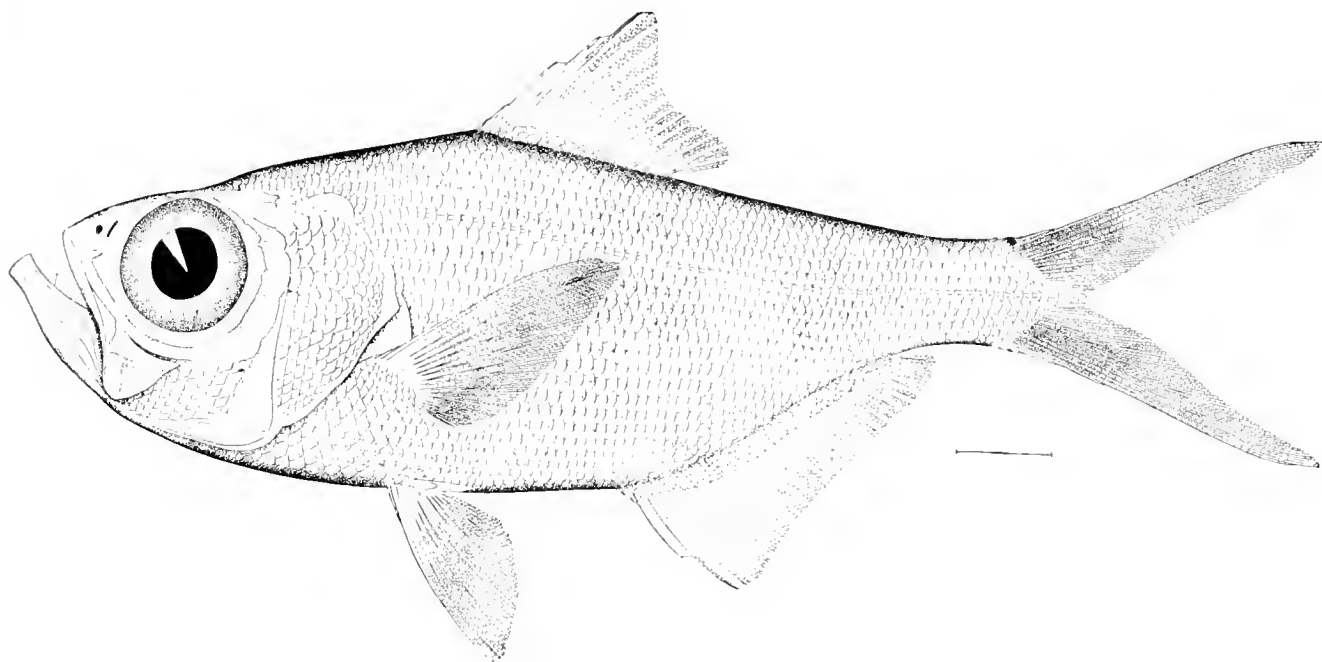
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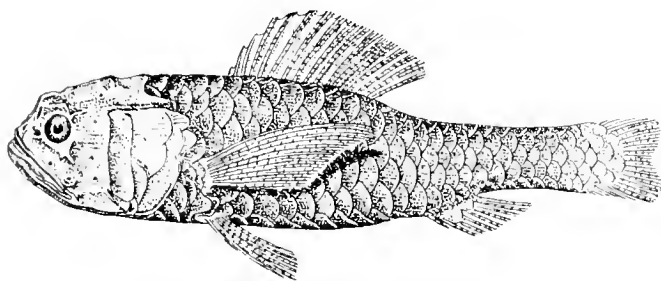
196b.

191a, b. NOTACANTHUS ANALIS. (p. 165.)
192. GIGLIOLIA MOSELEYI. (p. 169.)
195a, b. MACDONALDIA ROSTRATA. (p. 171)

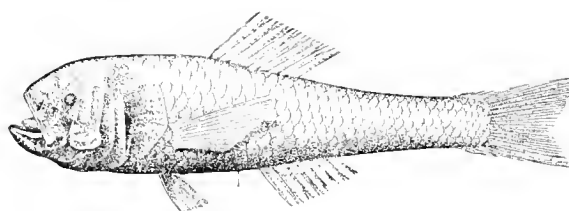
192a, b. NOTACANTHUS SEXSPINIS. (p. 163.)
194a, b. POLYACANTHONOTUS RISSOUANUS. (p. 170.)
196a, b. LIPOGENYS GILLII. (p. 173.)



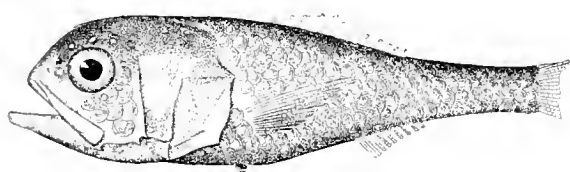
197



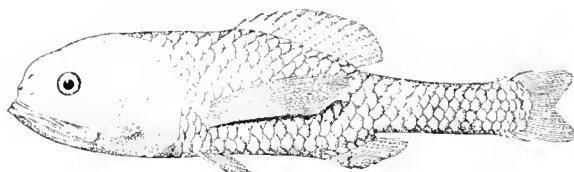
198



199



200

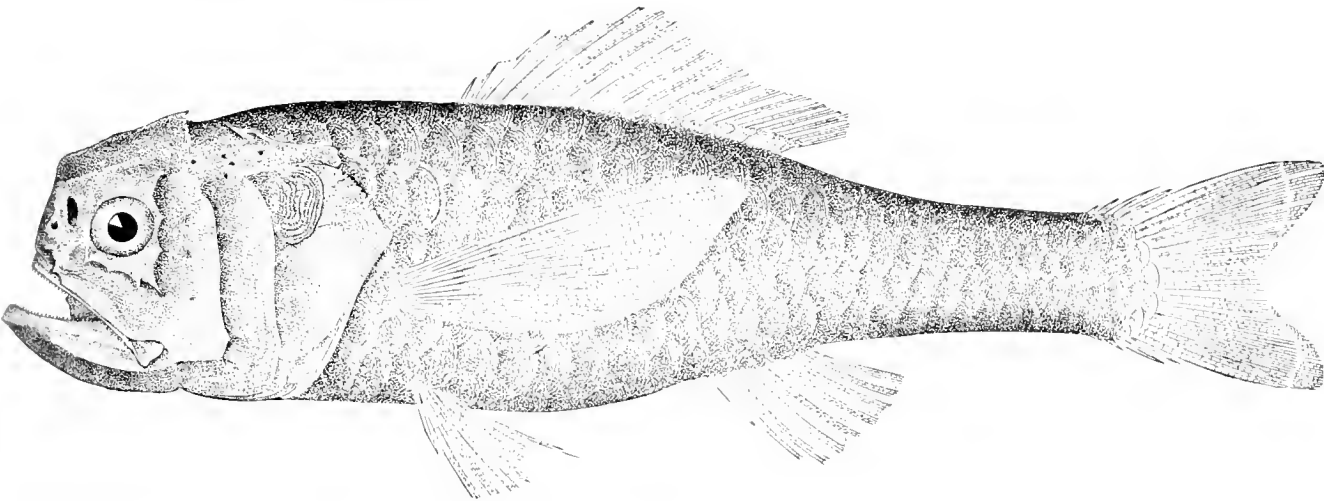


200a

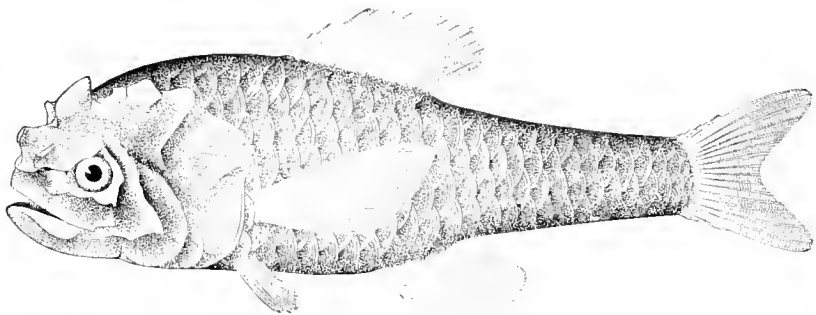
197. *BERYX SPLENDENS*. (p. 176.)
199. *SCOPELEGADUS COLES*. (p. 182.)

198. *MELAMPRES TYPHLOPS*. (p. 177.)
200. *POROMITRA CAPITO*. (p. 183.)

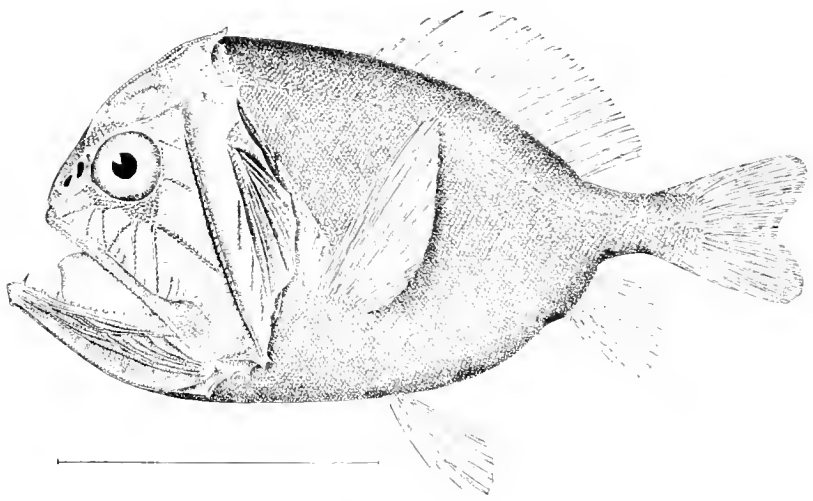
200a. *PLECTROMUS CRASSICEPS*. (p. 180.)



201

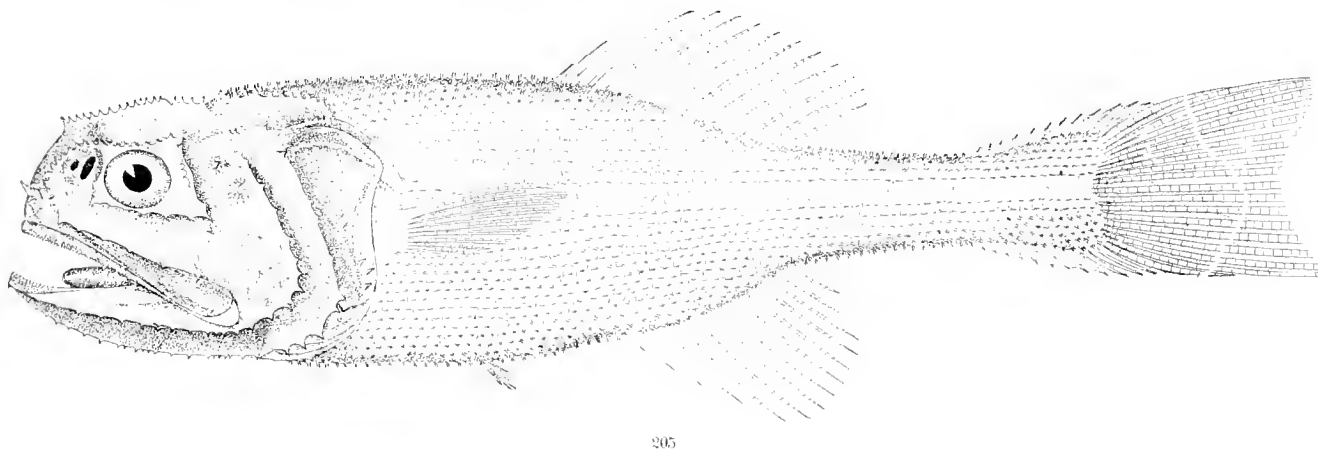
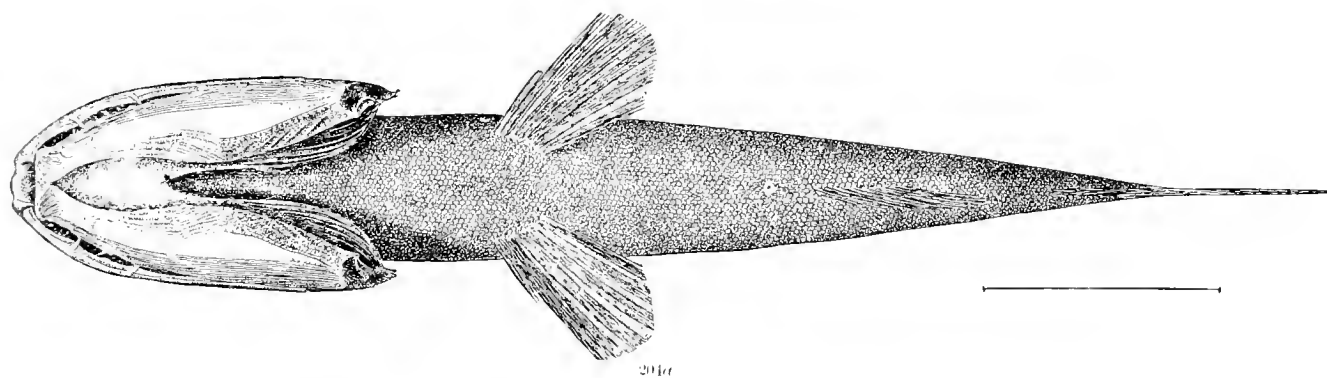
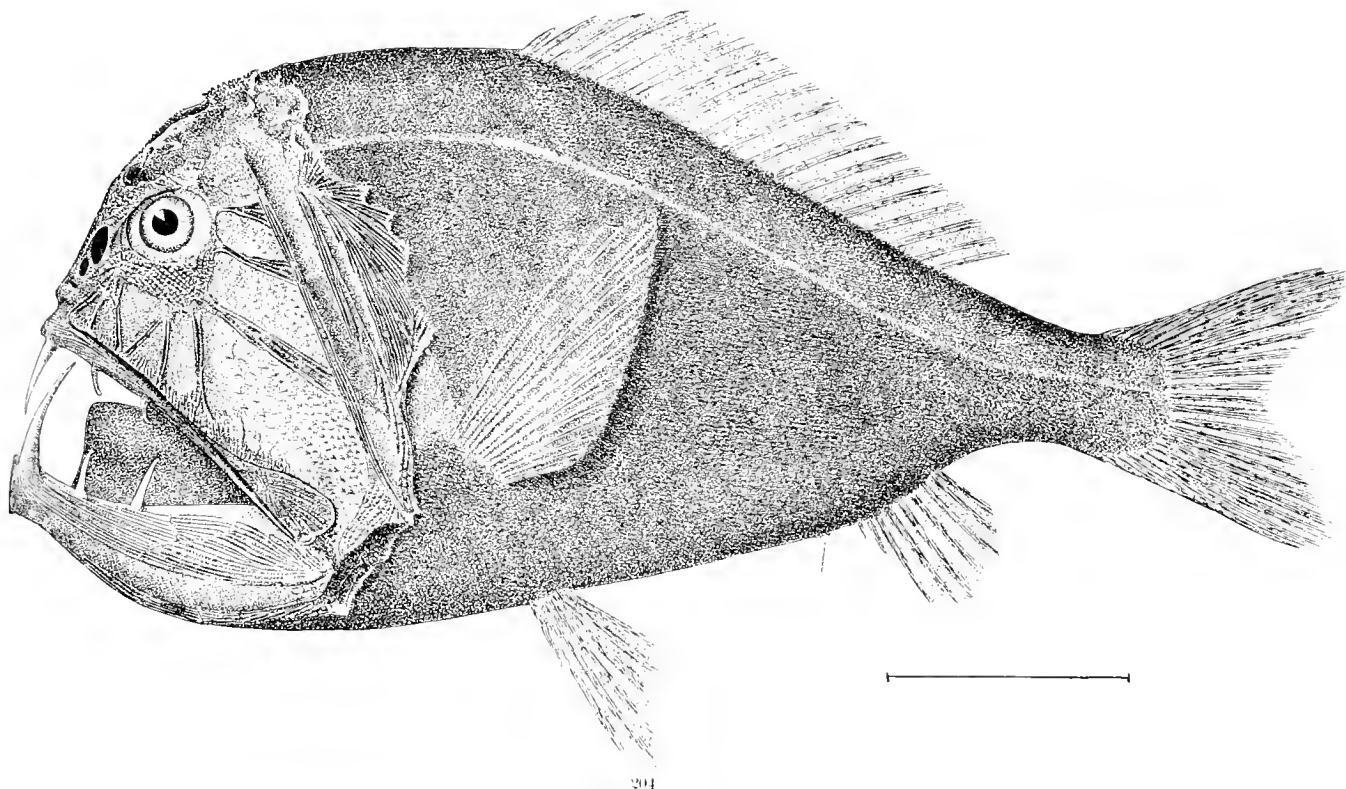


202



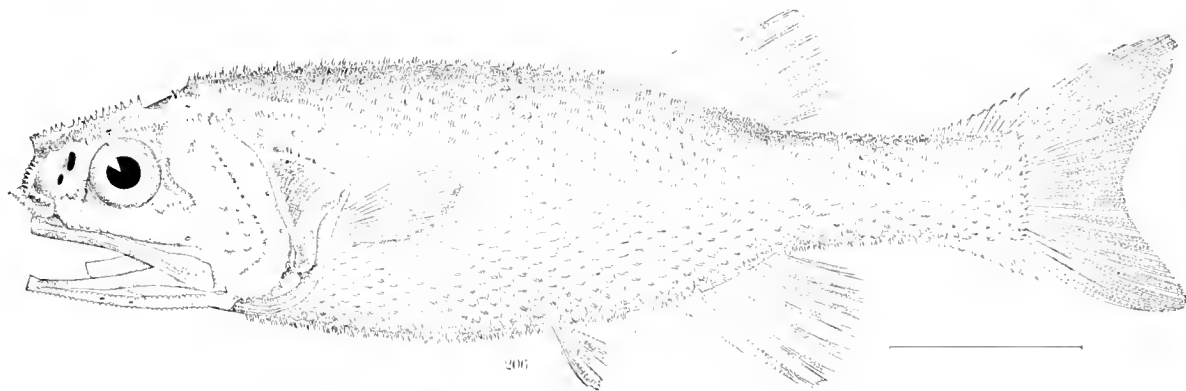
203

201. PLECTROMUS SUBORBITALIS. (p. 179.) 202. PLECTROMUS BEANII. (p. 179.)
203. ANOPOLOGASTER CORNUTUS. (p. 184.)

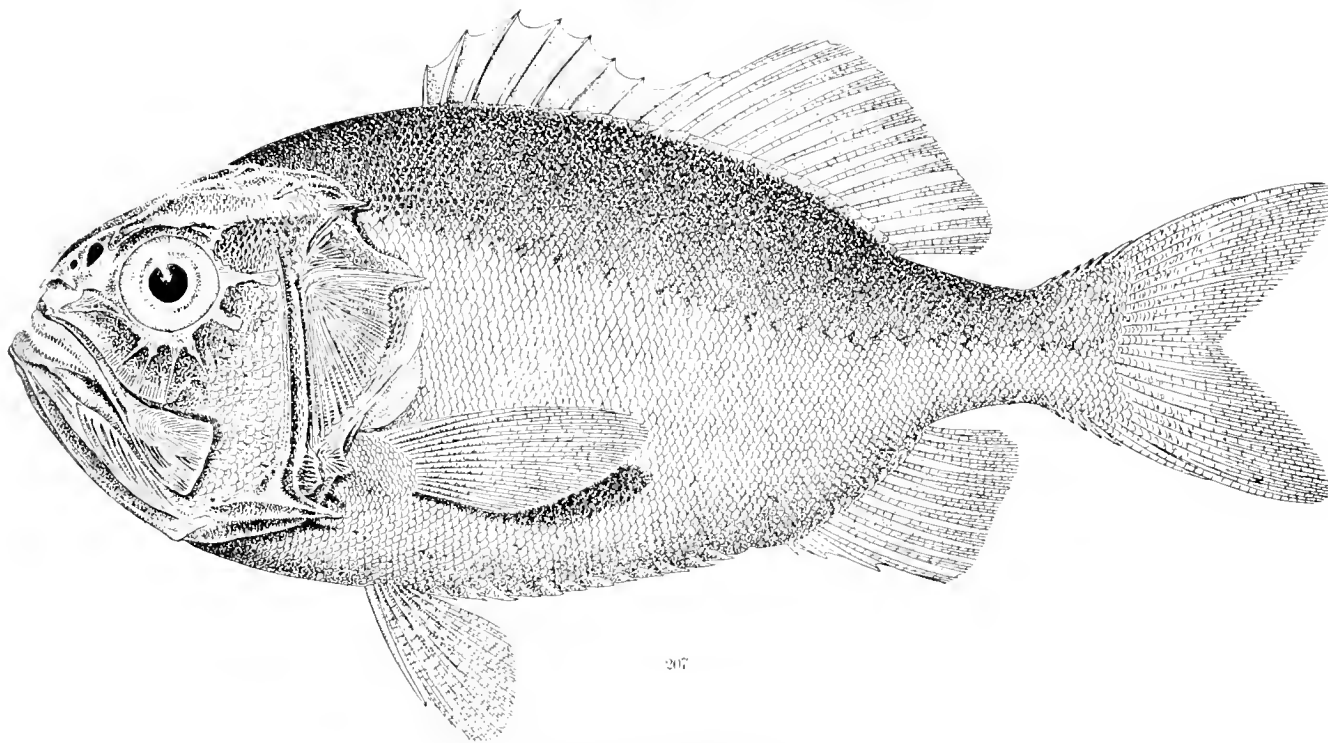


204, 204a. *CAULOLEPIS LONGIDENS*. (p. 185.)

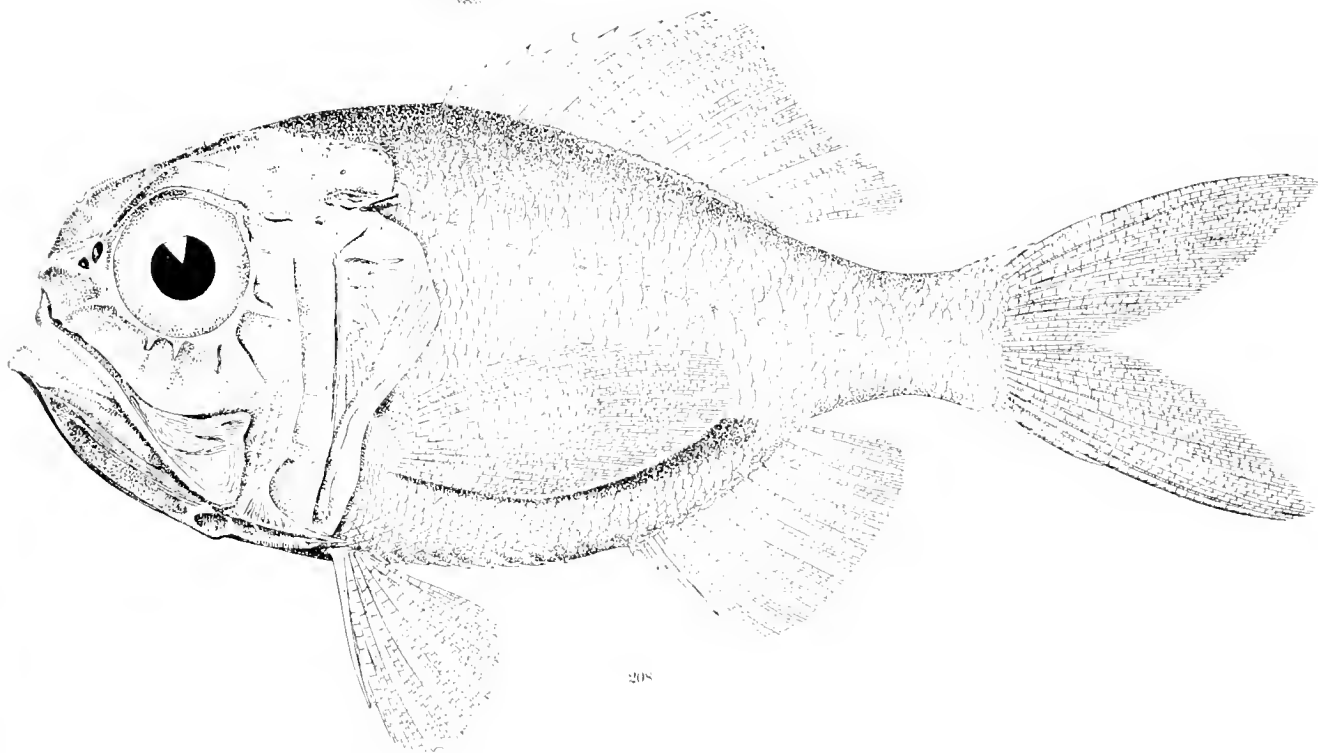
205. *STEPHANBERYX MON. N.* (p. 186.)



206



207

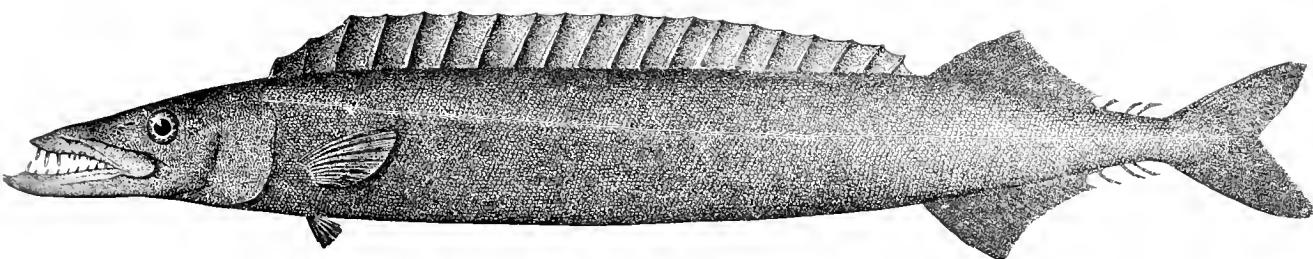


208

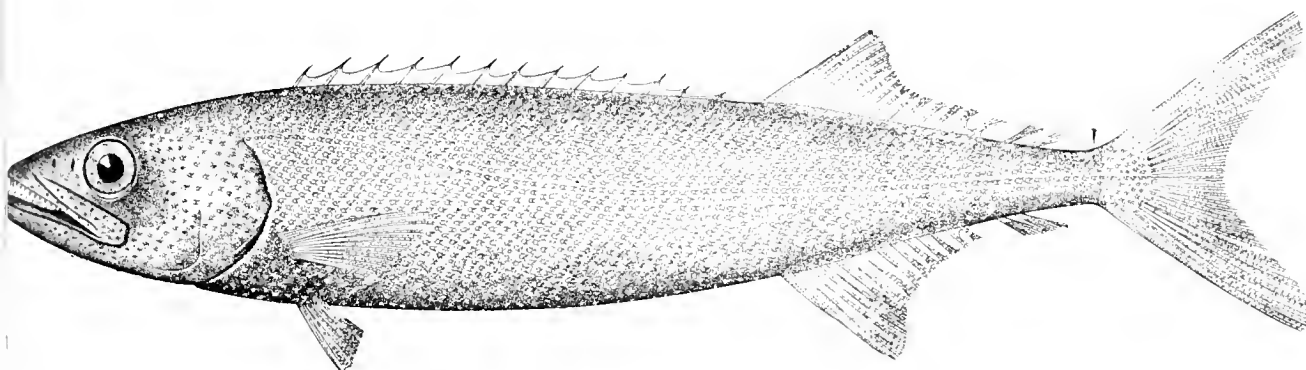
206. STEPHANOBERYX GILLII. (p. 187.)

207. TRACHICHTHYS DARWINII. (p. 188.)

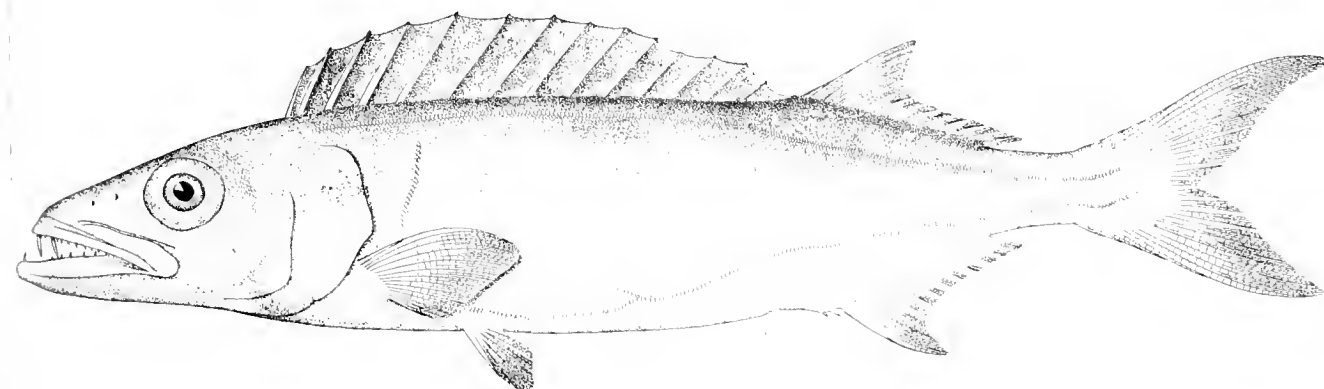
208. HOPLOSTETHUS MEDITERRANEUS. (p. 189.)



209



210



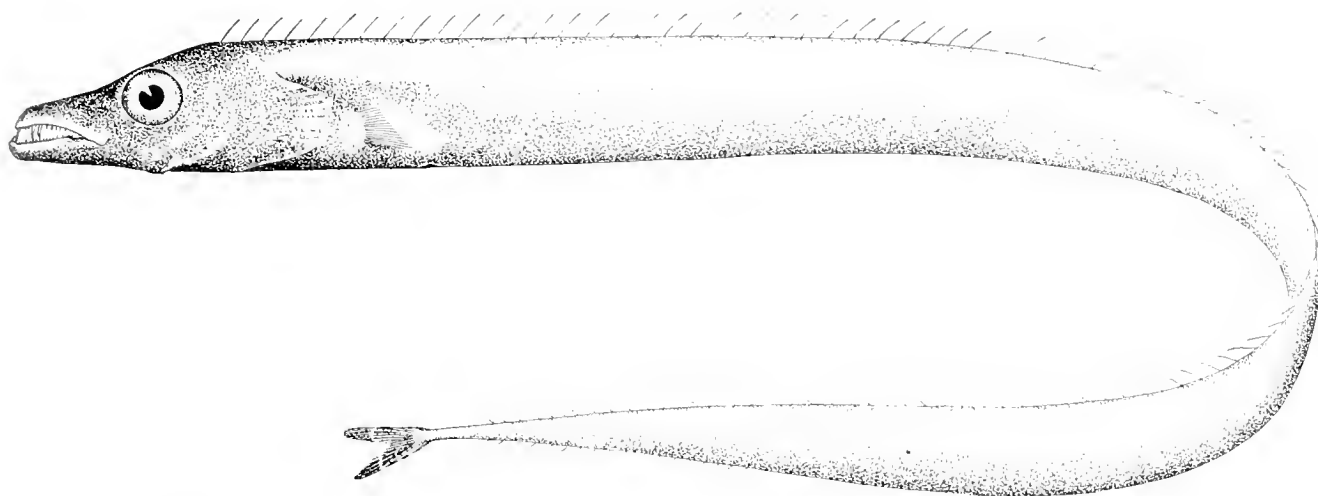
211



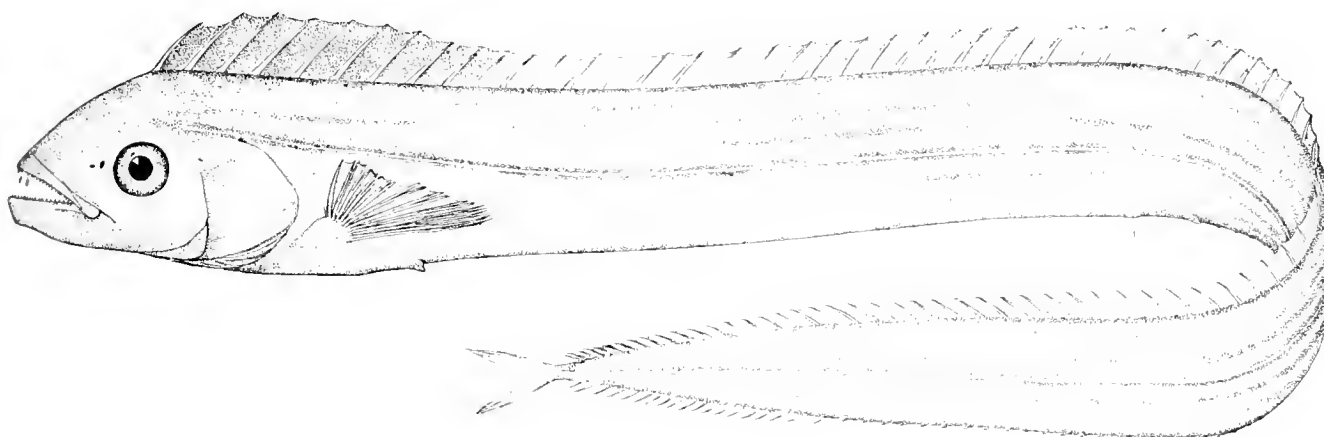
212

209. THYRSITOPS VIOLACEUS. (p. 195.)
211. EPINNULA MAGISTRALIS. (p. 198.)

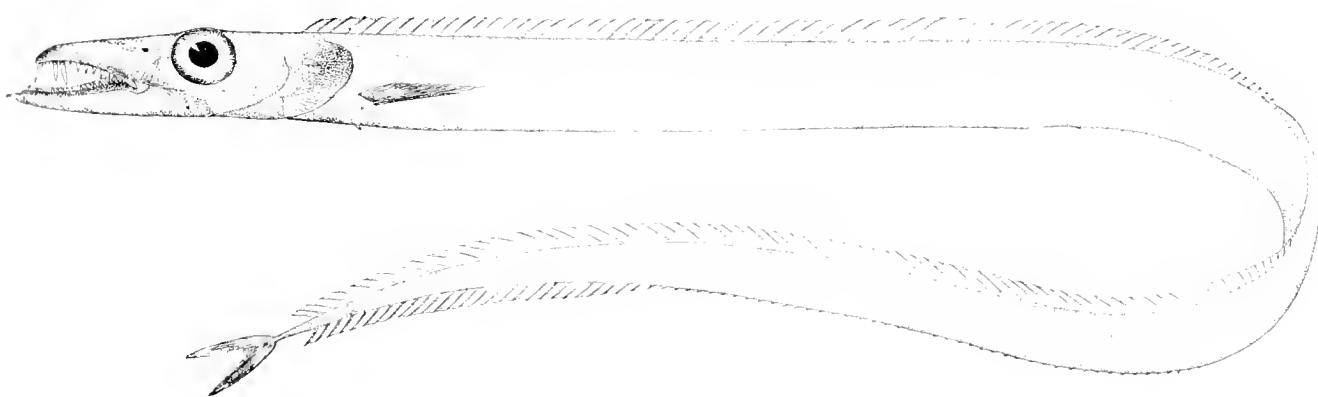
210. RUVETTUS PRETIOSUS. (p. 196.)
212. DICROTUS PARVIPPINIS. (p. 201.)



213



214

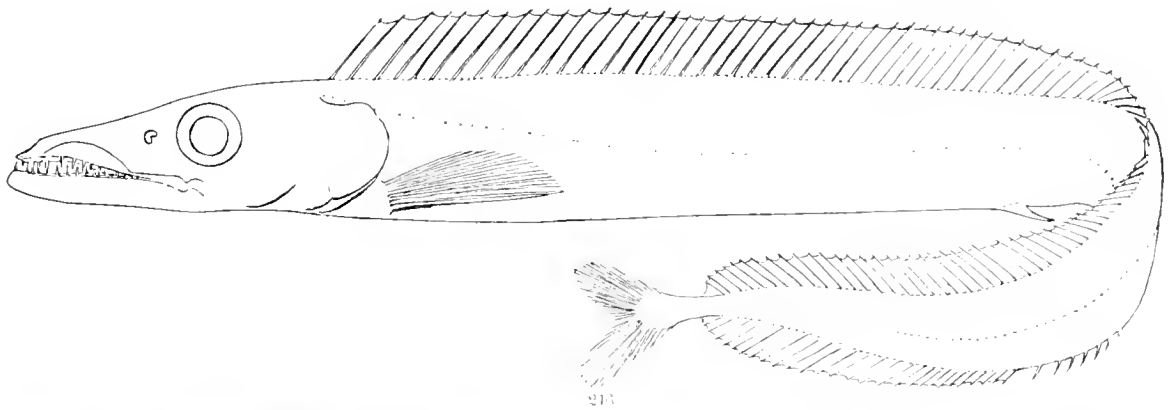


215

213. *LEPIDOPTERUS CAUDATUS*. (p. 203.)

214. *EXOXYMETOPUS TENIATUS*. (p. 204.)

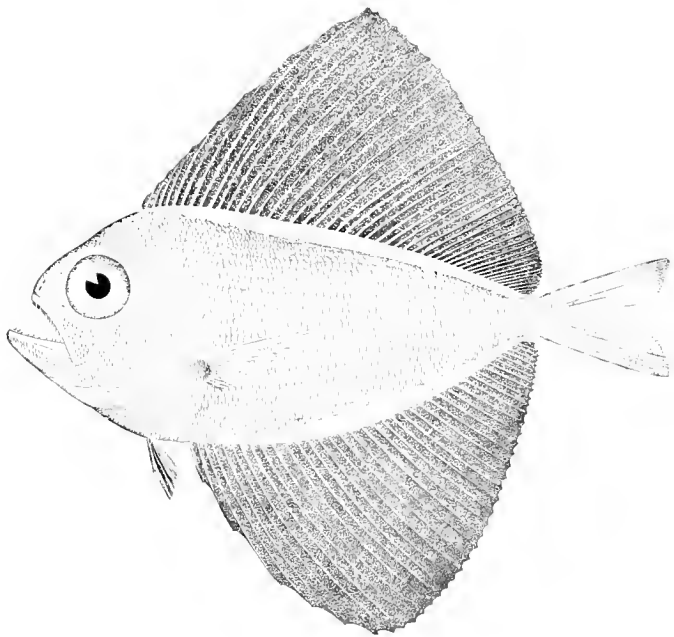
215. *BENTHODESMUS ATLANTICUS*. (p. 205.)



216



217



218

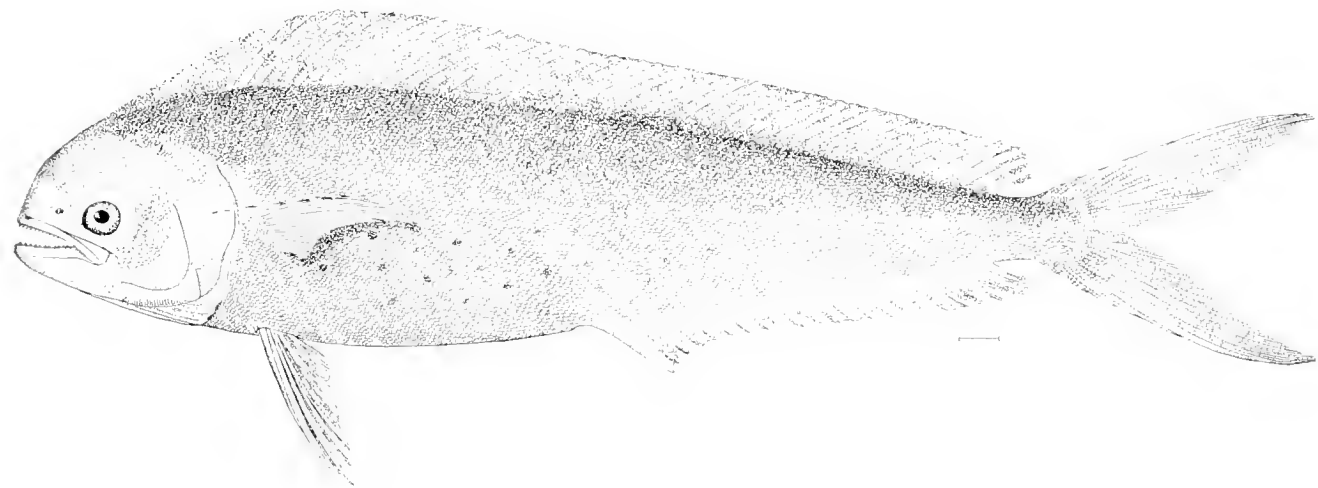
216. *APHANOPUS CARBO*. (p. 207.)

217. *TRICHIURUS LEPTURUS*. (p. 208.)

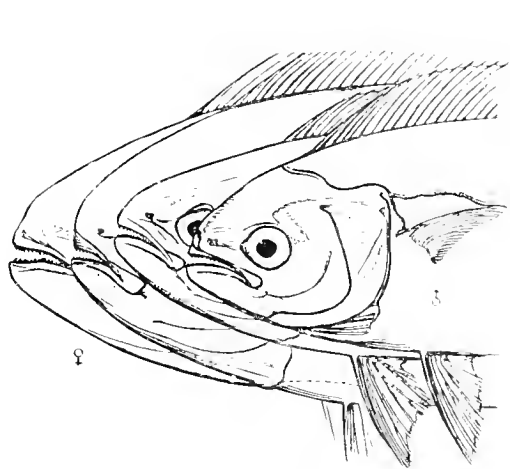
218. *PTERACLIS CAROLINUS*. (p. 212.)



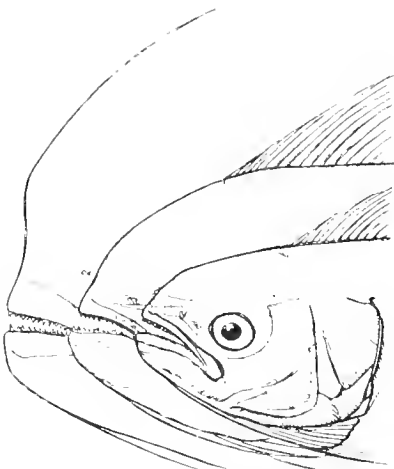
219



220



220a

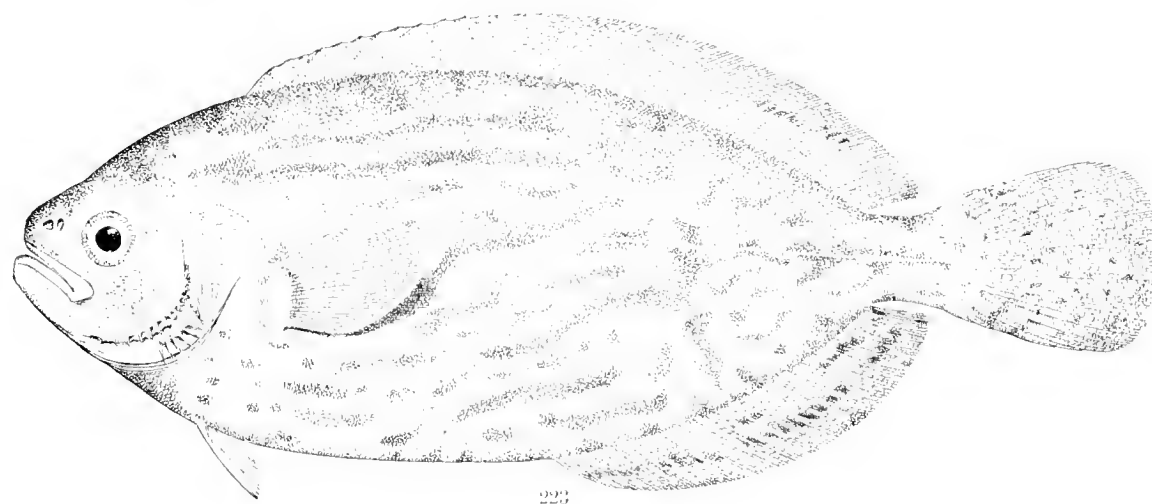
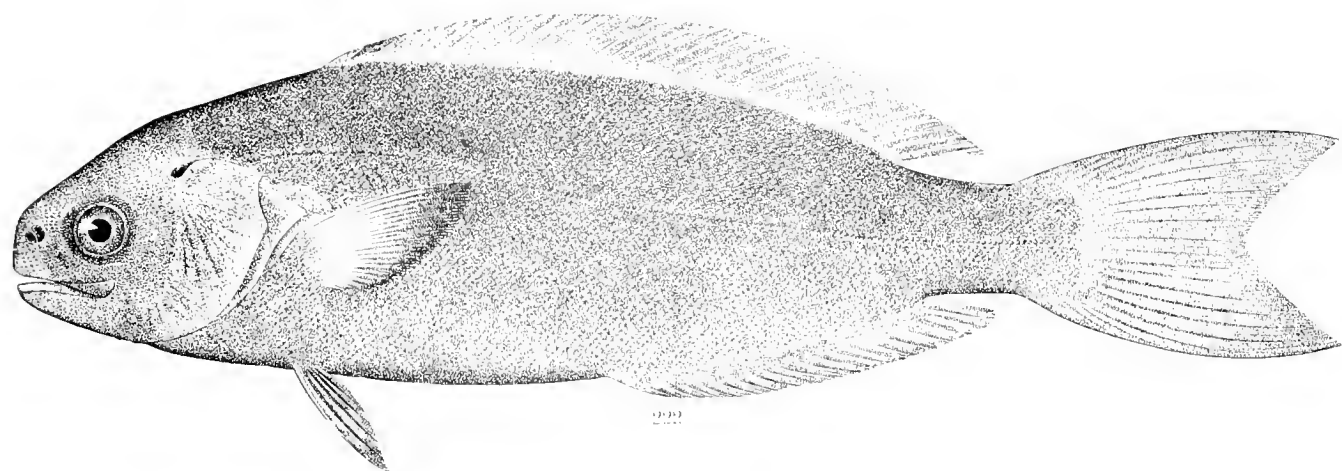
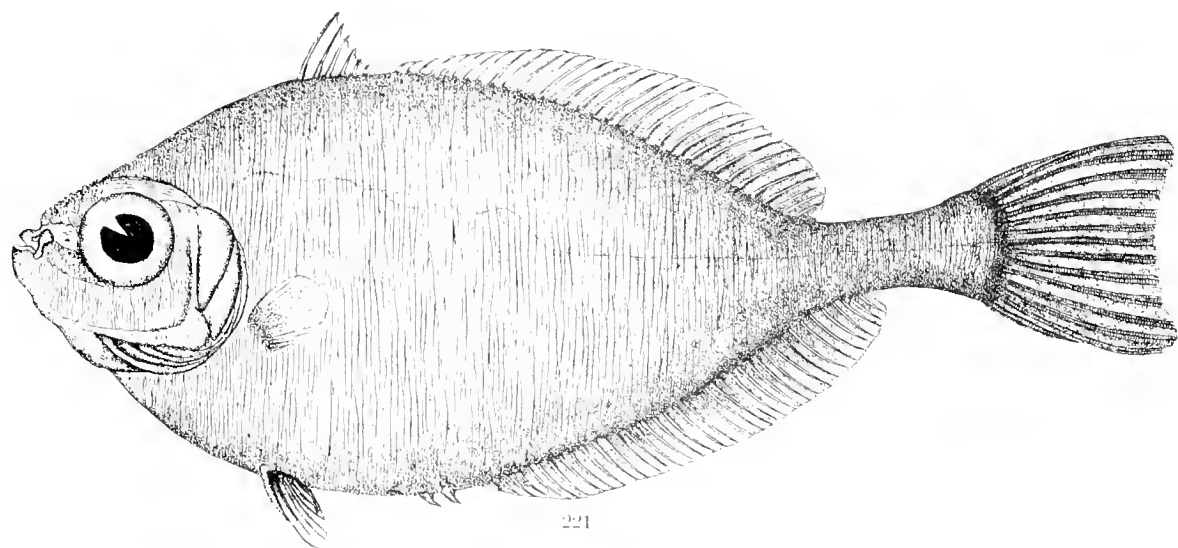


220b

219. *CORYPHÆNA HIPPURUS* (old male). (p. 209.)

220. *CORYPHÆNA HIPPURUS* (young). (p. 209.)

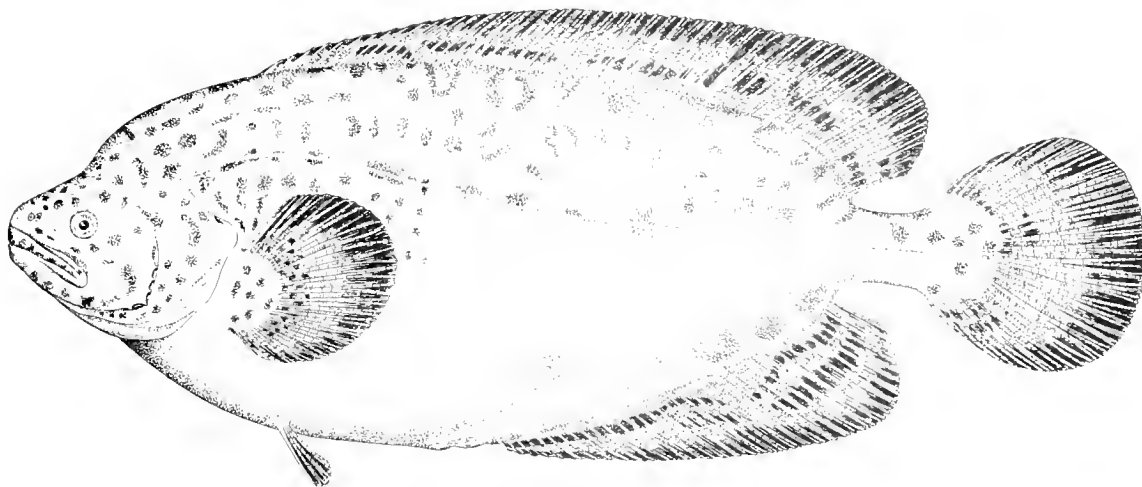
220a, b. *CORYPHÆNA HIPPURUS*. (p. 209.)



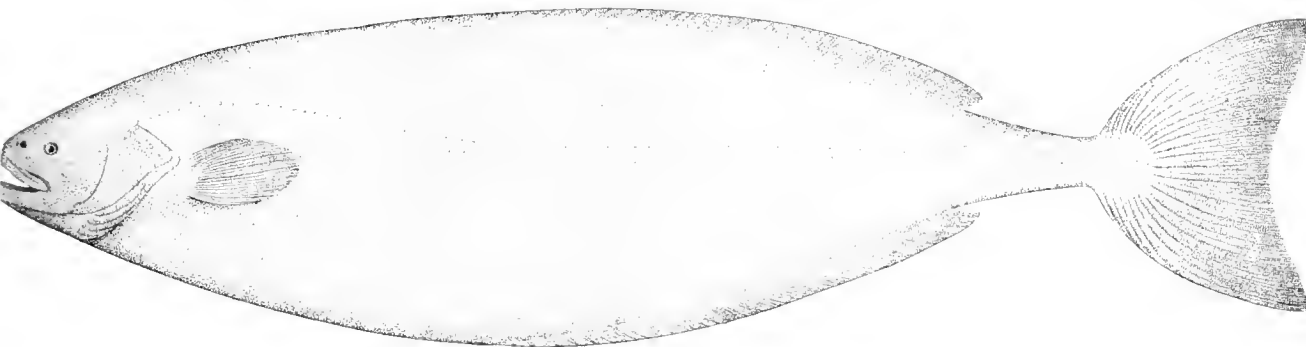
221. *GRAMMICOLEPIS BRACHYSCULUS*. (p. 218.)

222. *CENTROLOPHUS POMPIUS*. (p. 214.)

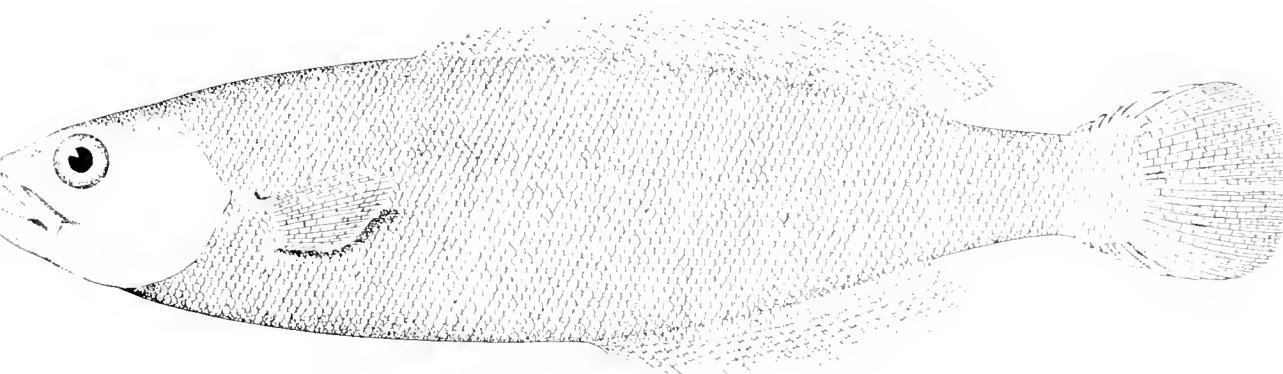
223. *SCHEDOPHILUS MEDUSOPHILUS*. (p. 214.)



224

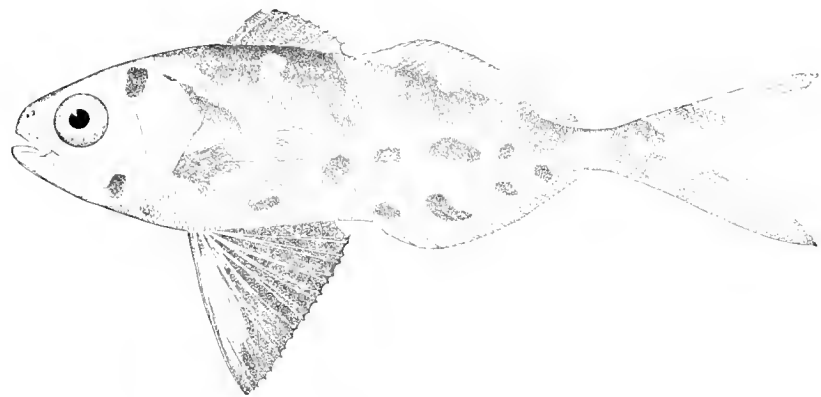


225

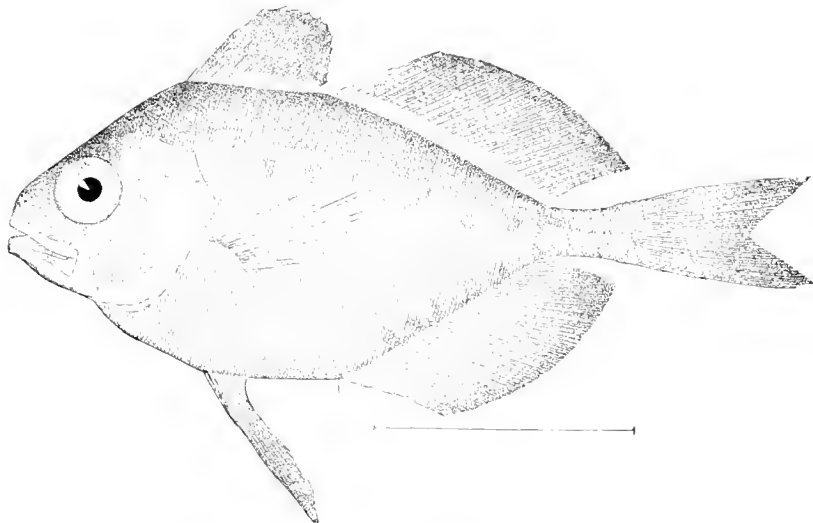


226

224. *ICOSTEUS ENIGMATICUS*. (p. 215.) 225. *ACROTUS WILLOUGHBYI*. (p. 217.)
226. *ICHTHYYS LOCKINGTONI*. (p. 216.)



227

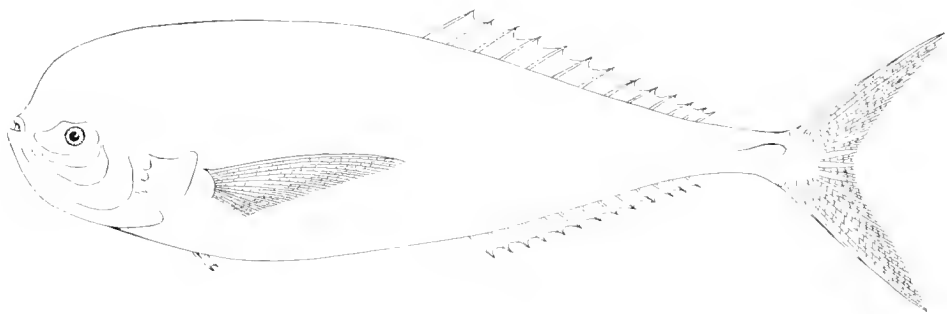


228

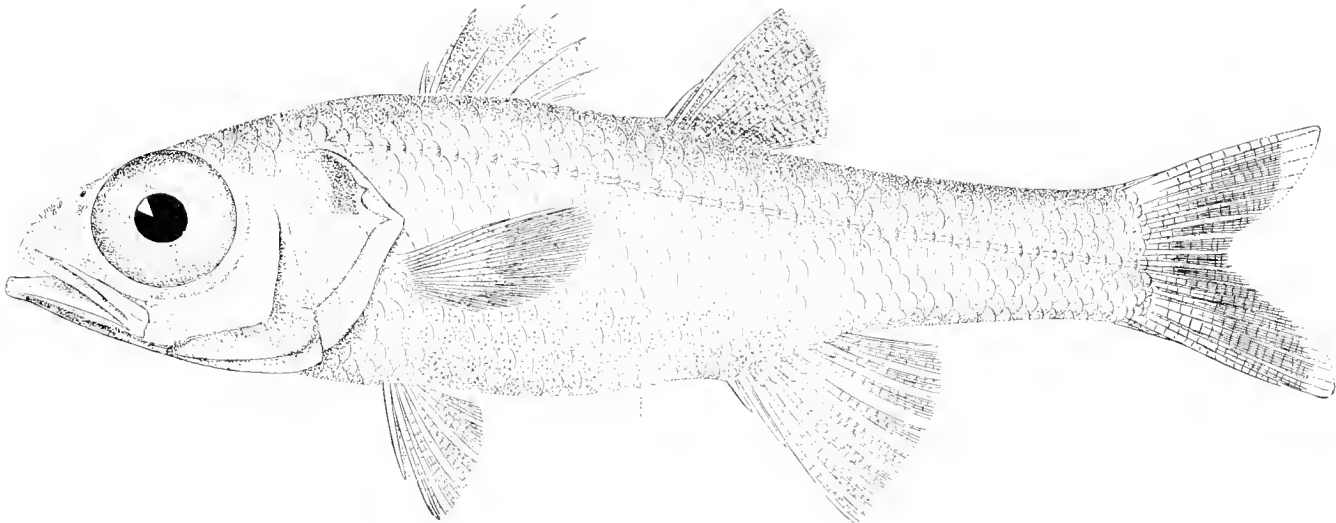


229

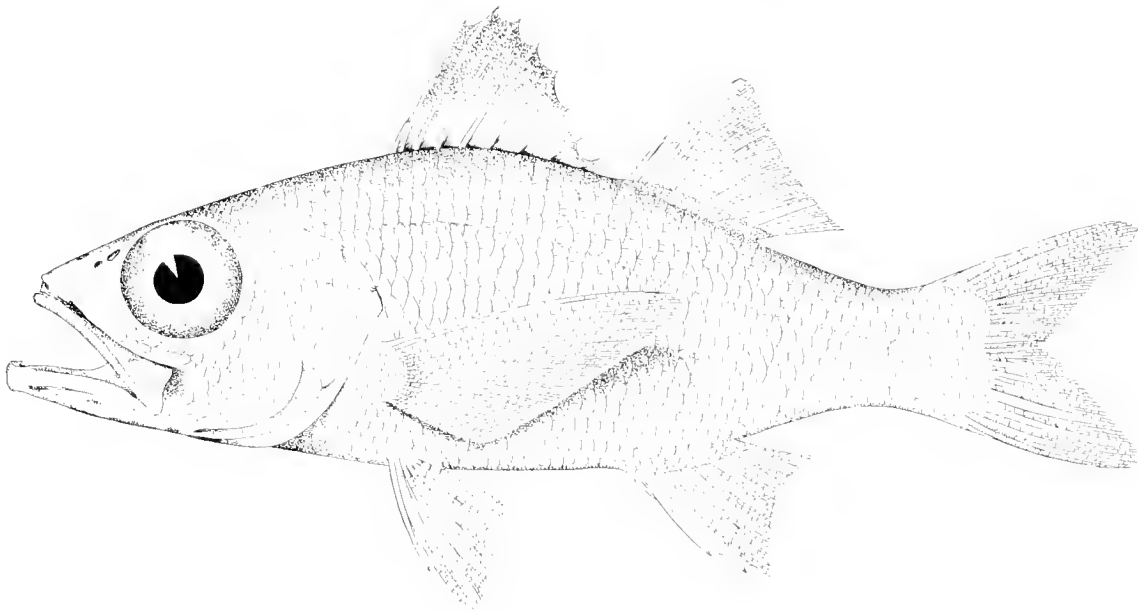
227. *NEMUS GRONOVII*. (p. 220.) 228. *PSENES FELLUCIDUS*. (p. 221.)
229. *PSENES MACULATUS*. (p. 221.)



230

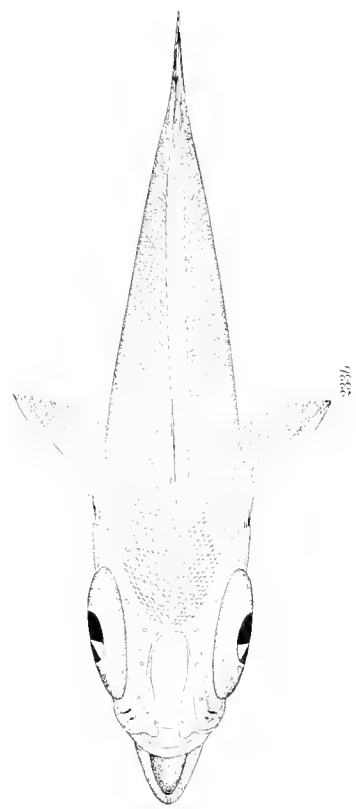
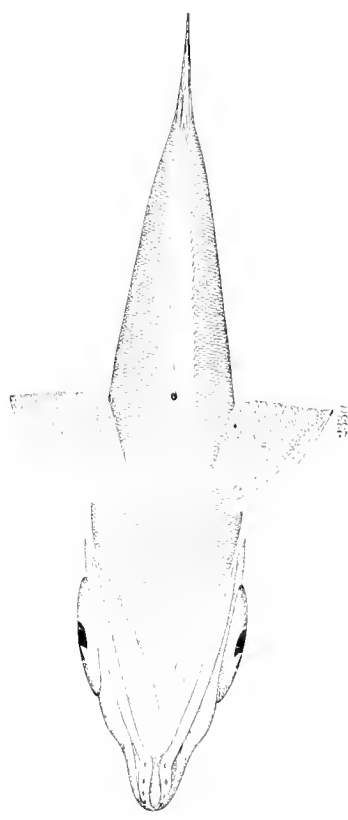
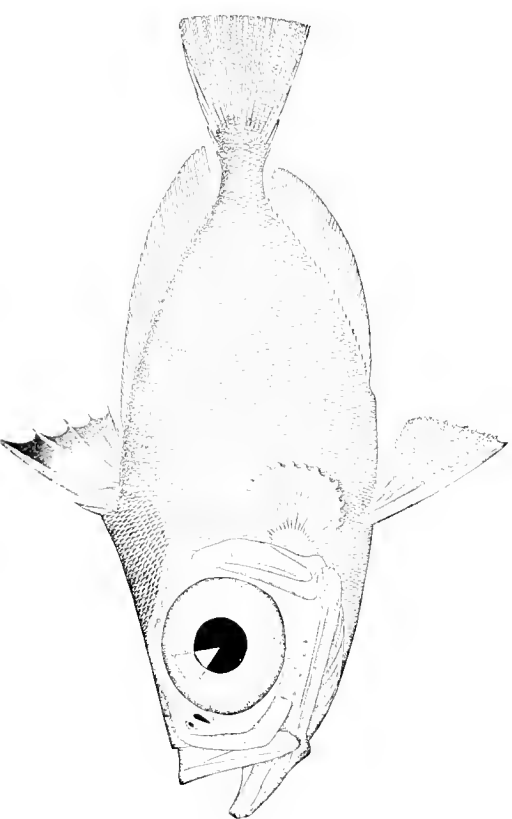
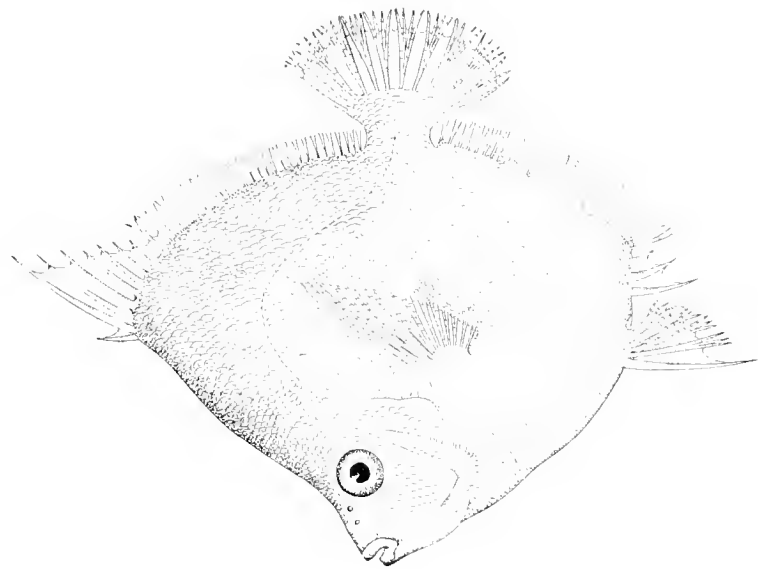
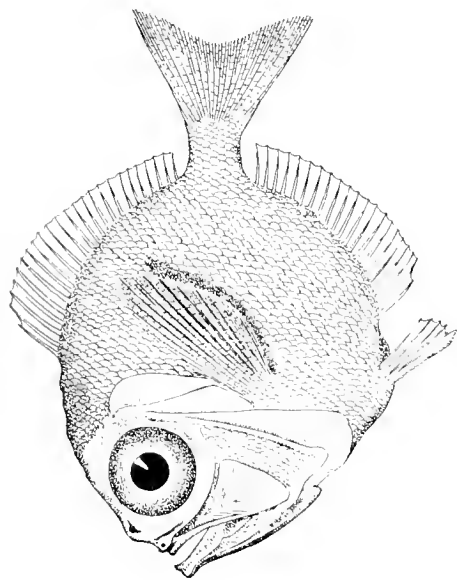


231



232

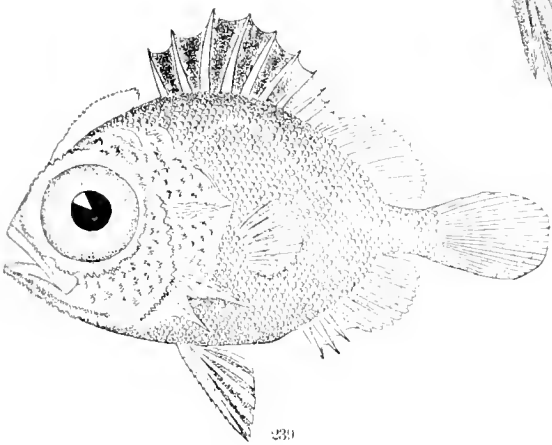
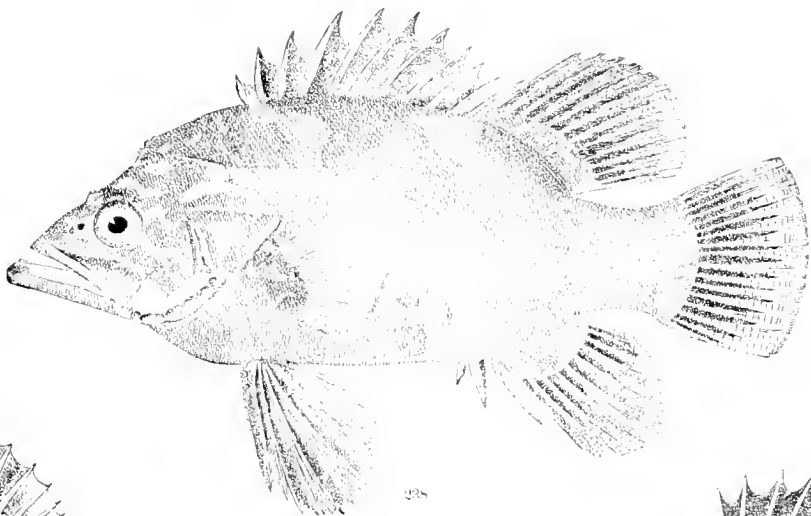
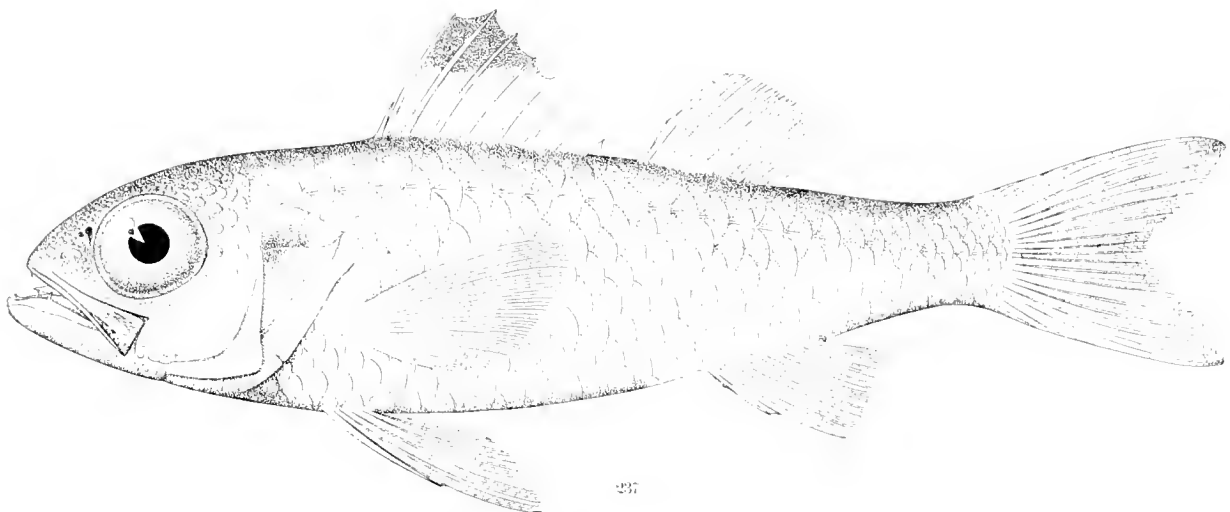
230. *LUVARUS IMPERIALIS*. (p. 222.) 231. *GLOSSAMIA PANDIONIS*. (p. 231.)
232. *VERILUS SORDIDUS*. (p. 240.)



235. *ANTIGONIA CAPROS*. (p. 229.)

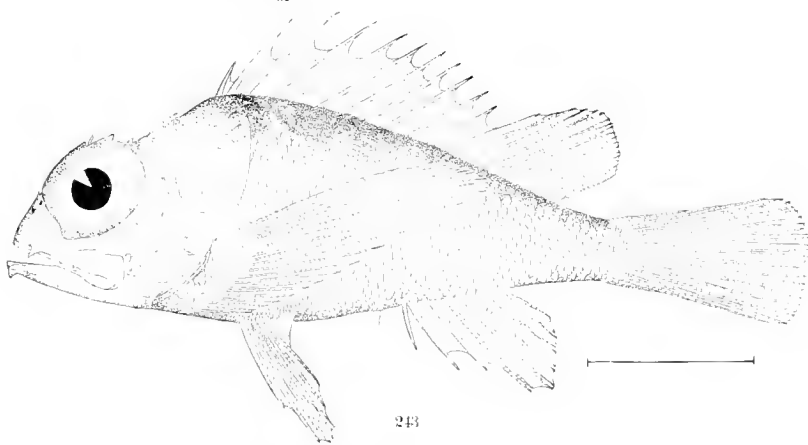
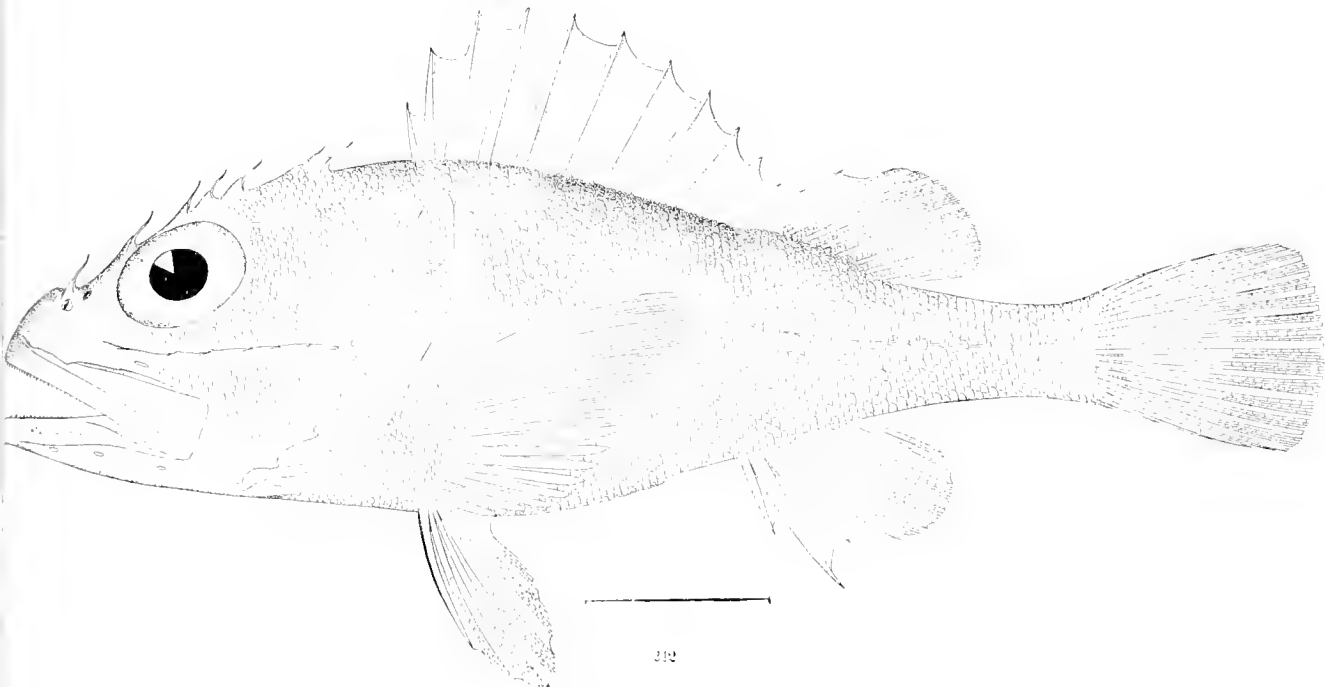
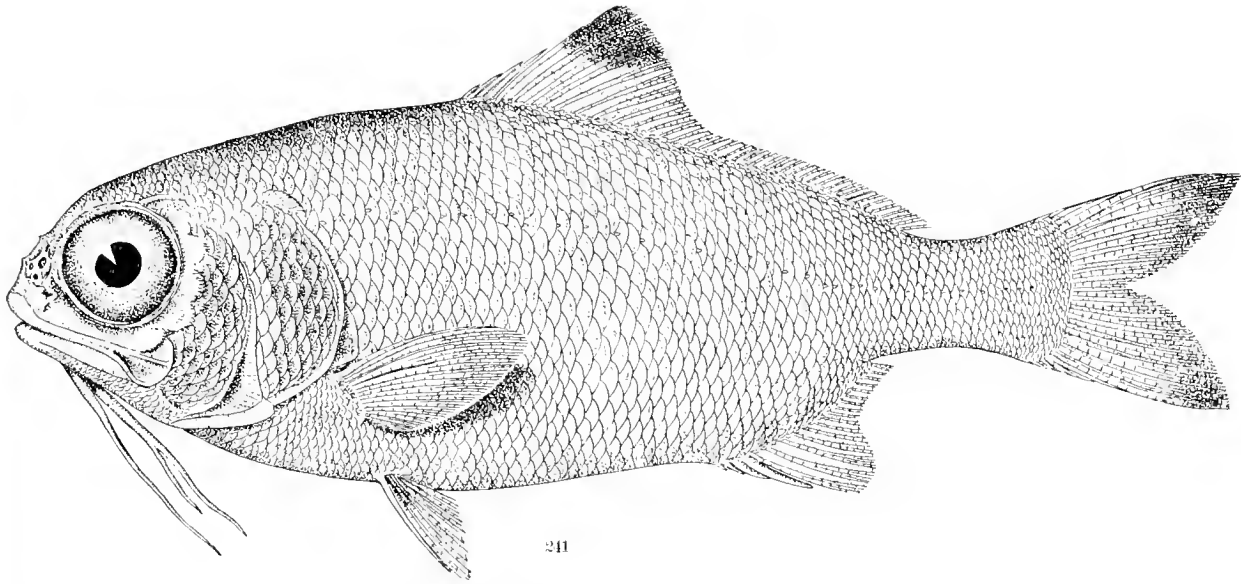
234. *DIRETMUS ARGENTUS*. (p. 211.)

233, 233*a*, *b*. *CYTUS HOLOLEPIS*. (p. 225.)

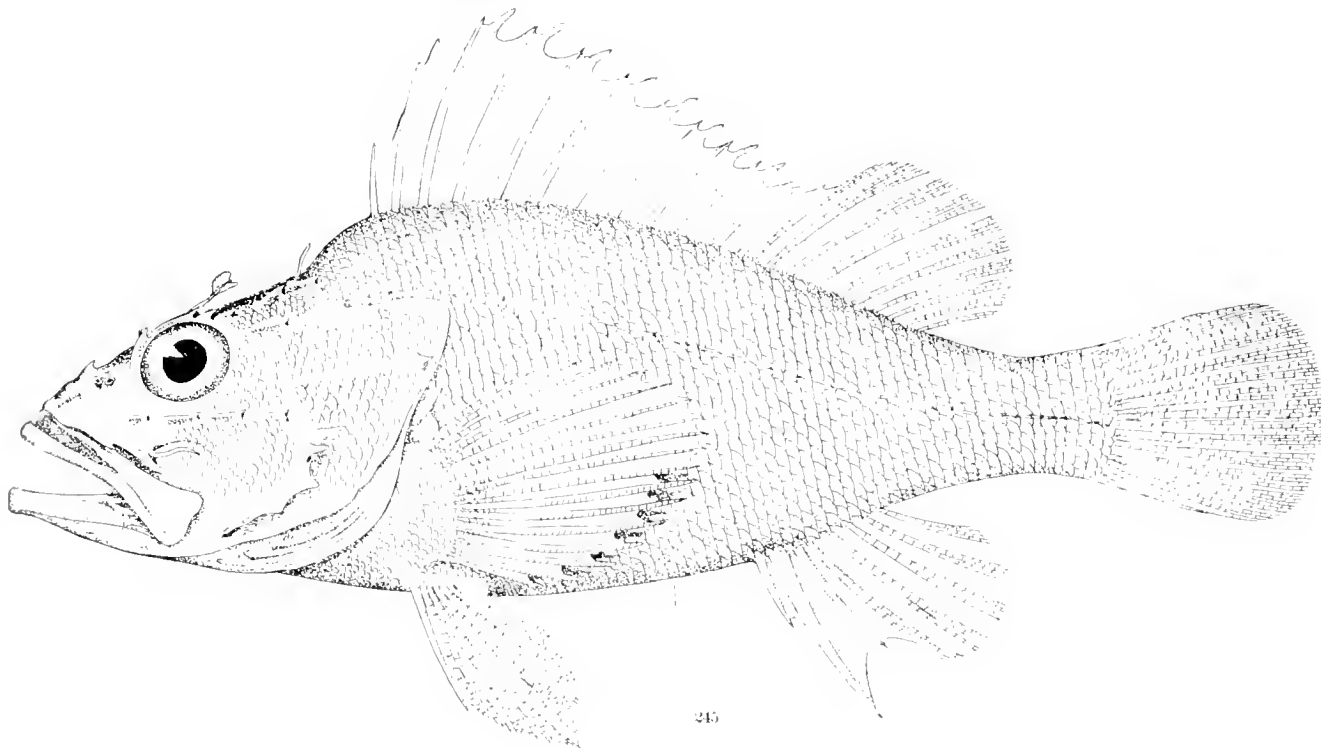
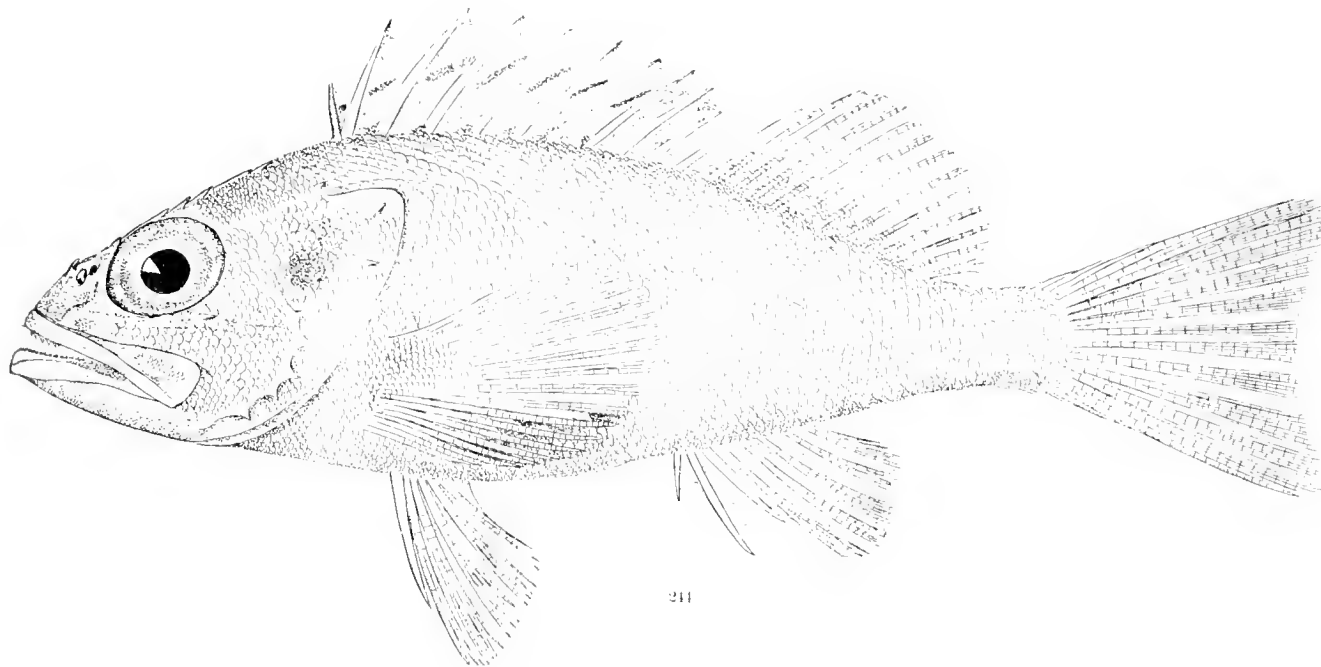


236. *EPIGONUS OCCIDENTALIS*. (p. 233.)
238. *POLYPRION AMERICANUM*. (p. 238.)

237. *HYPOCLIDION BELLA*. (p. 236.)
239, 240. *PSEUDOPLEURANCISTRUS ALTUS*. (p. 242.)



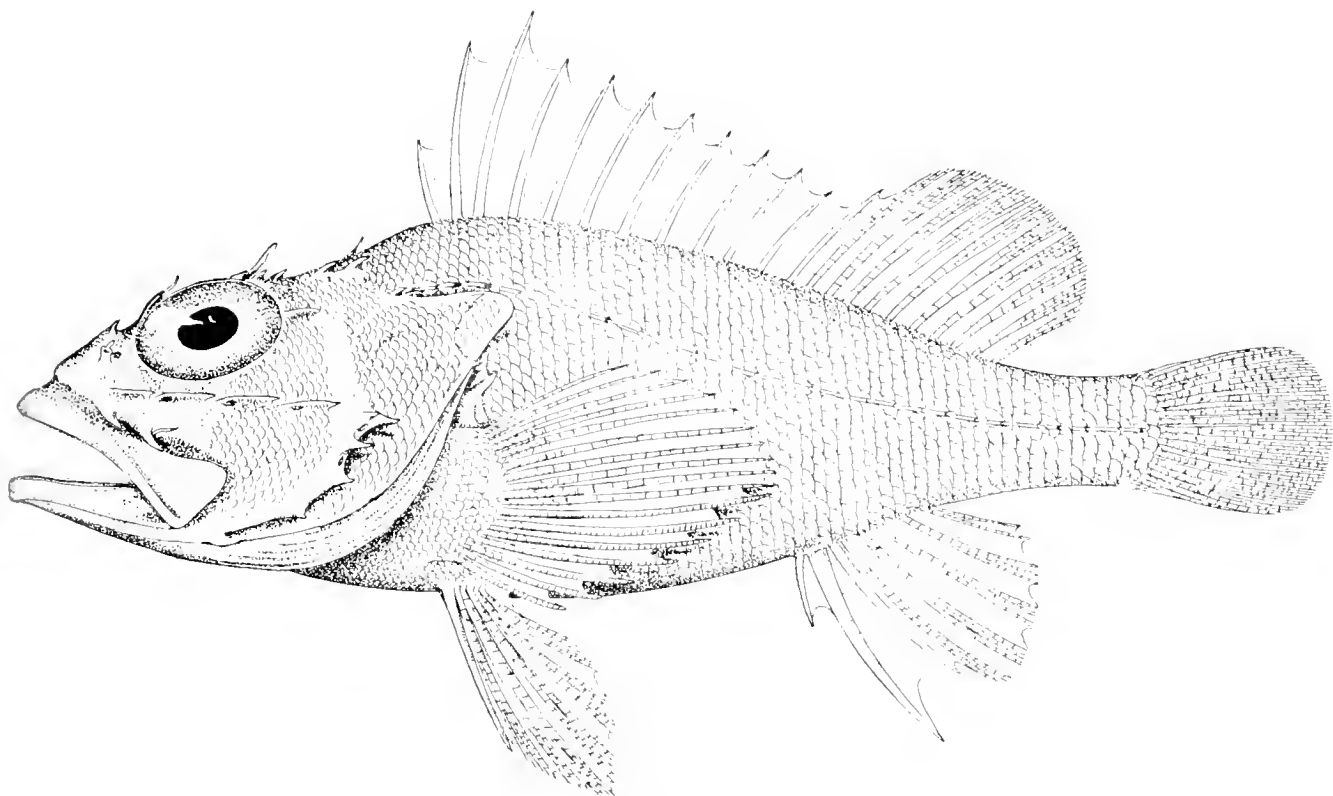
241. *POLYMIXIA NOBILIS*. (p. 243.) 242. *SCORPÆNA CRISTULATA*. (p. 246.)
243. *SCORPÆNA AGASSIZII*. (p. 247.)



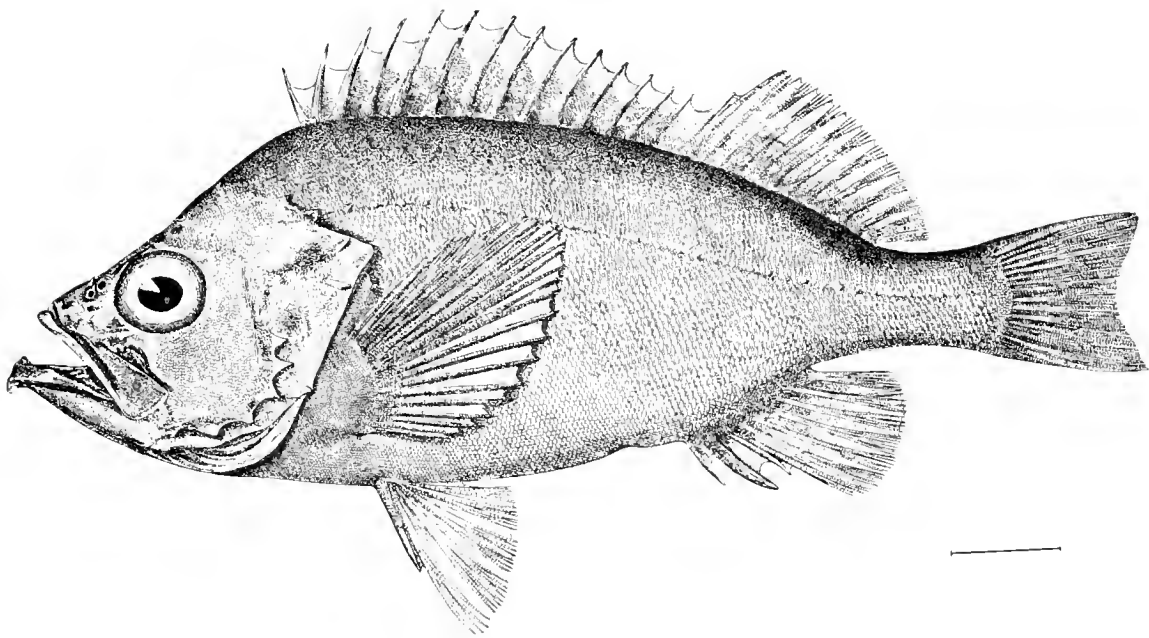
244. *HELICOLENUS DACTYLOPTERUS*. (p. 250.)

245. *PONTINUS RATHBUNI*. (p. 255.)

246. *PONTINUS LONGISPINIS*. (p. 258.)



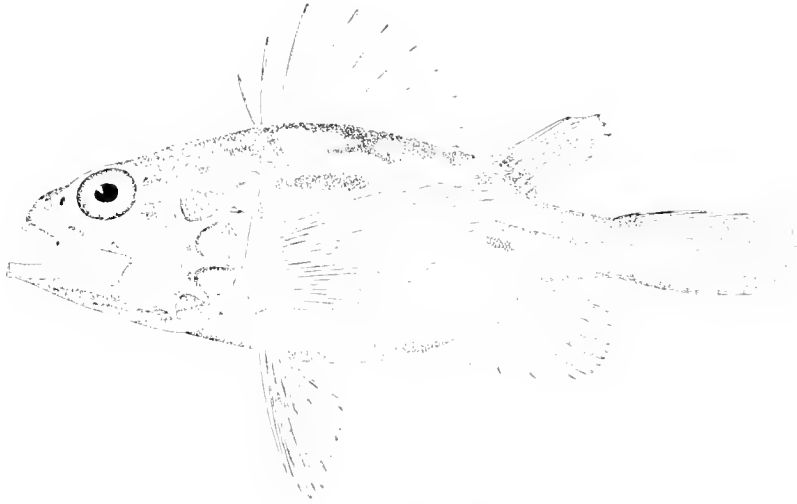
247



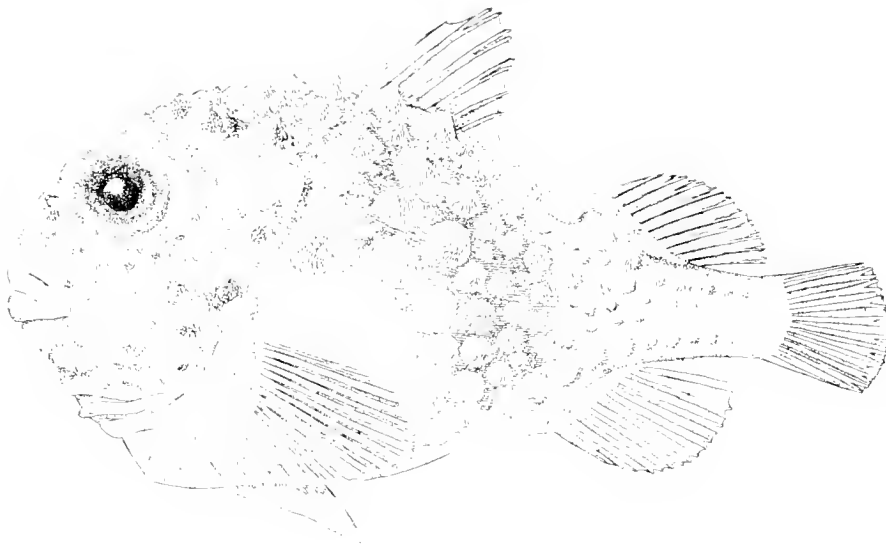
248

247. *PONTINUS MACROLEPIS.* (p. 257.)

248. *SEBASTES MARINUS.* (p. 260.)



249



250



251a



251



251b



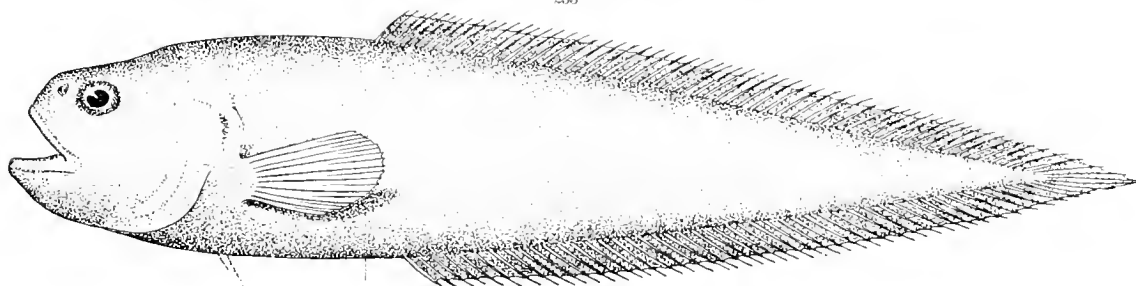
252

249. *SETARCHES PARVATUS*. (p. 264.)
251, 251a, b. *CAREPROCTUS RANULA*. (p. 275.)

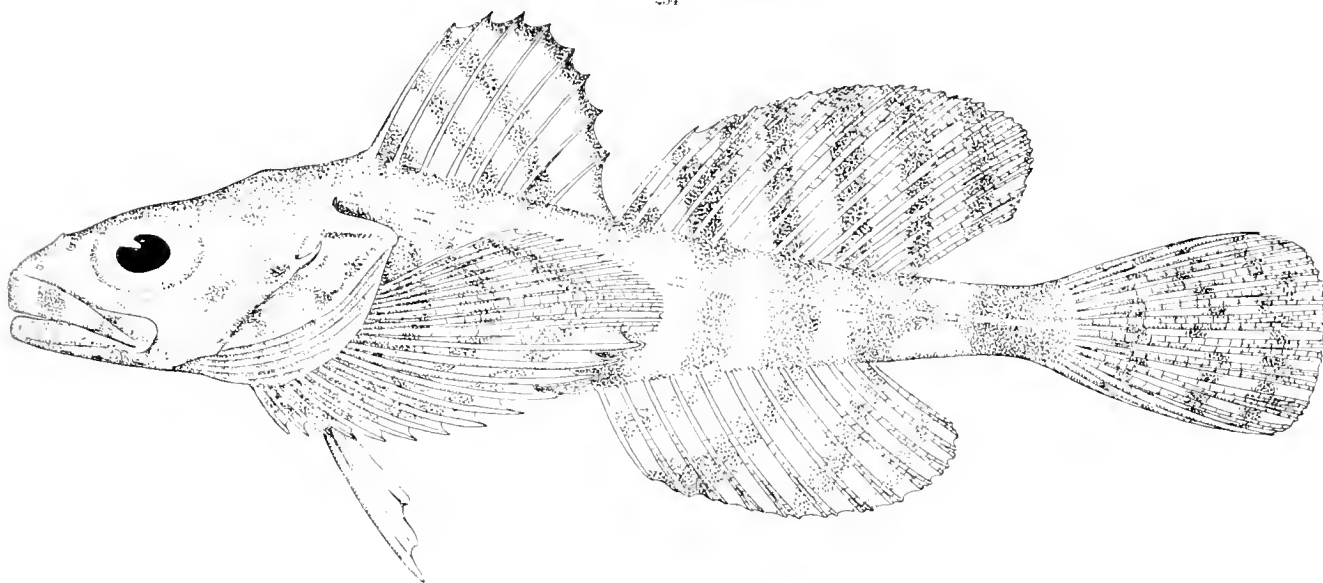
250. *EUMICROTREMUS SPINOSUS*. (p. 272.)
252. *MONOMITRA LIPARINA*. (p. 278.)



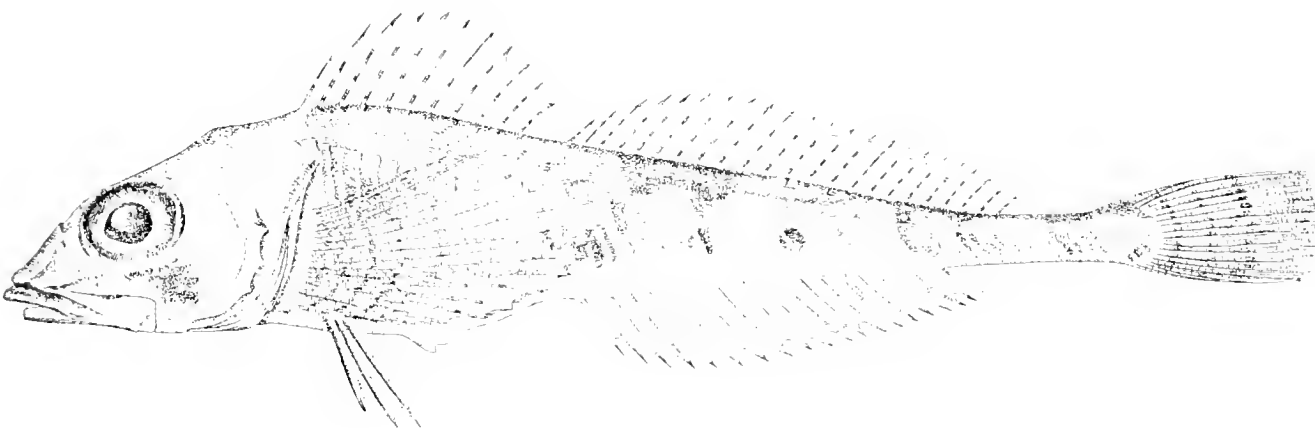
253



254



255



256

253. *PARALIPARIS* COPEI. (p. 279.)
255. *ARTEDIELLUS* UNCINATUS. (p. 267.)

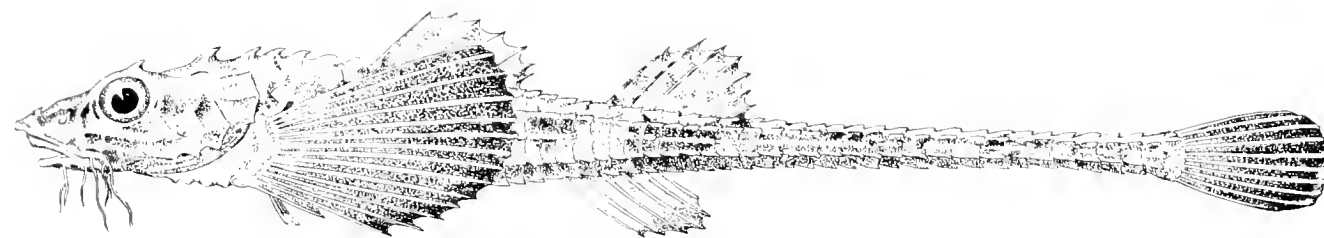
254. *GYMNOLYCES* EDWARDSI. (p. 281.)
256. *TRIGLOPS* PINGELLII. (p. 269.)



257



258



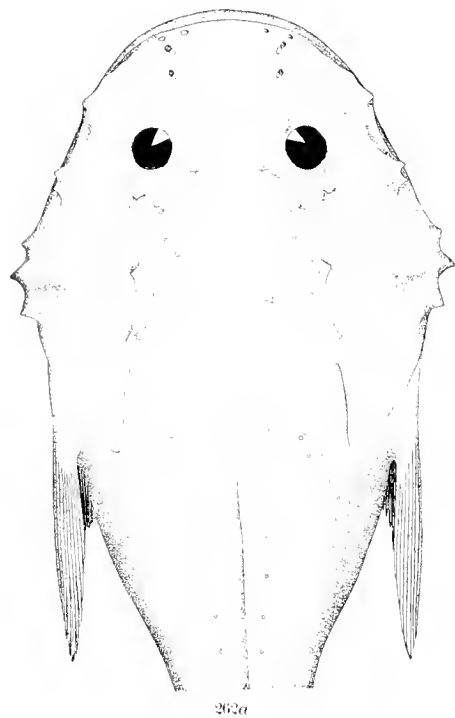
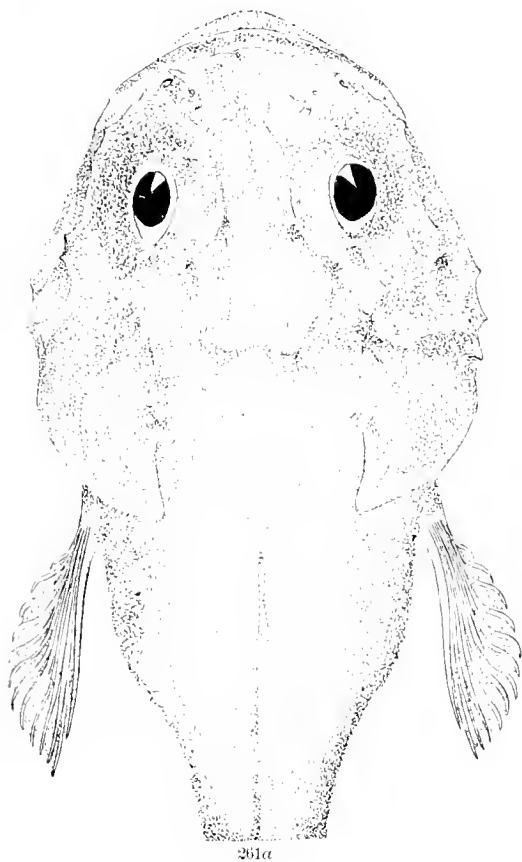
259



260

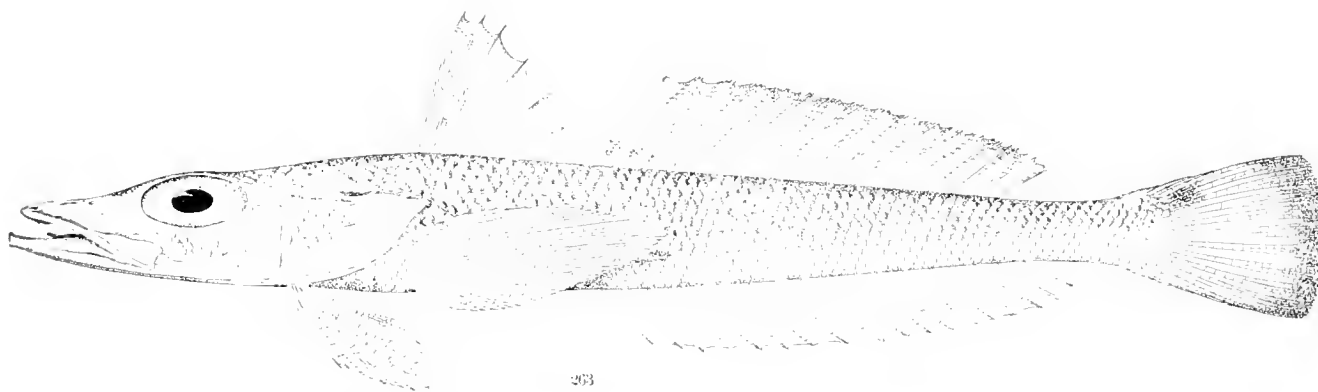
257. *COTTUNCULUS MICROPS*. (p. 269.)
259. *PODOTHIECTUS DECAGONUS*. (p. 282.)

258. *COTTUNCULUS THOMPSONII*. (p. 270.)
260. *ASTIDECTHOROIDEUS MONOPTERYGIUS*. (p. 283.)

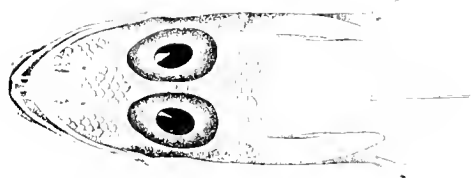


261a, b. *COTTUNCULUS MICRIPS*. (p. 269.)

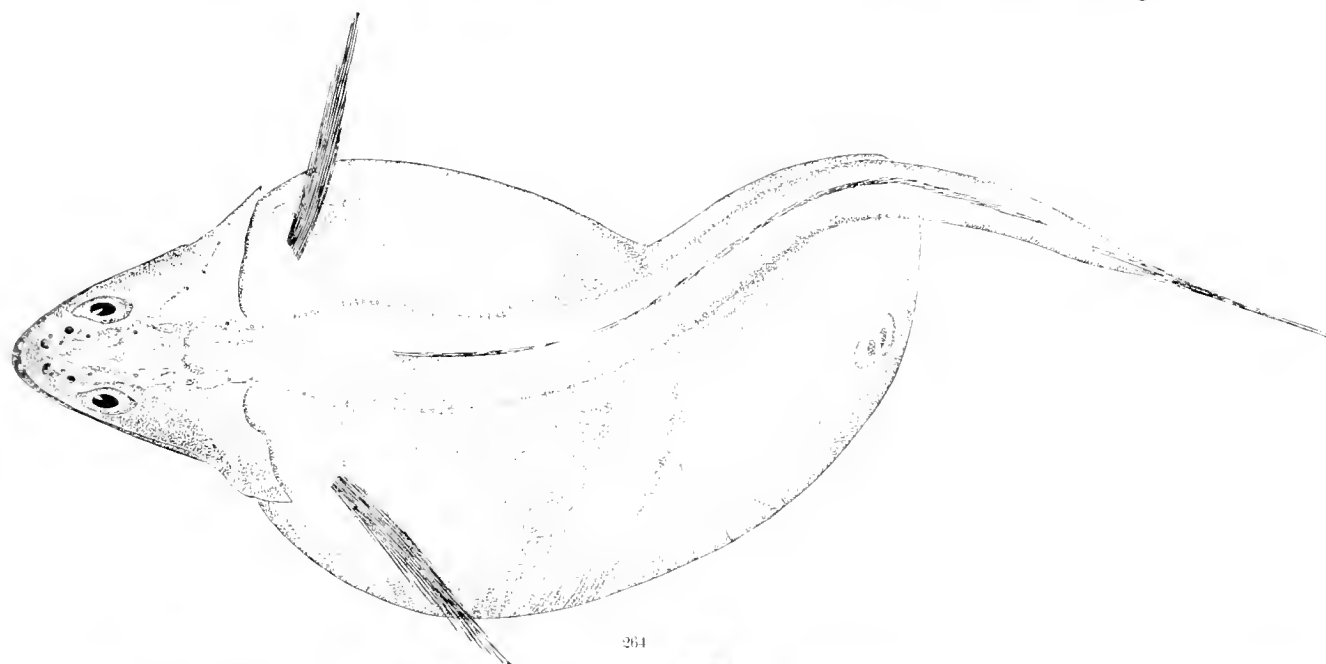
262a, b. *COTTUNCULUS THOMSONII*. (p. 270.)



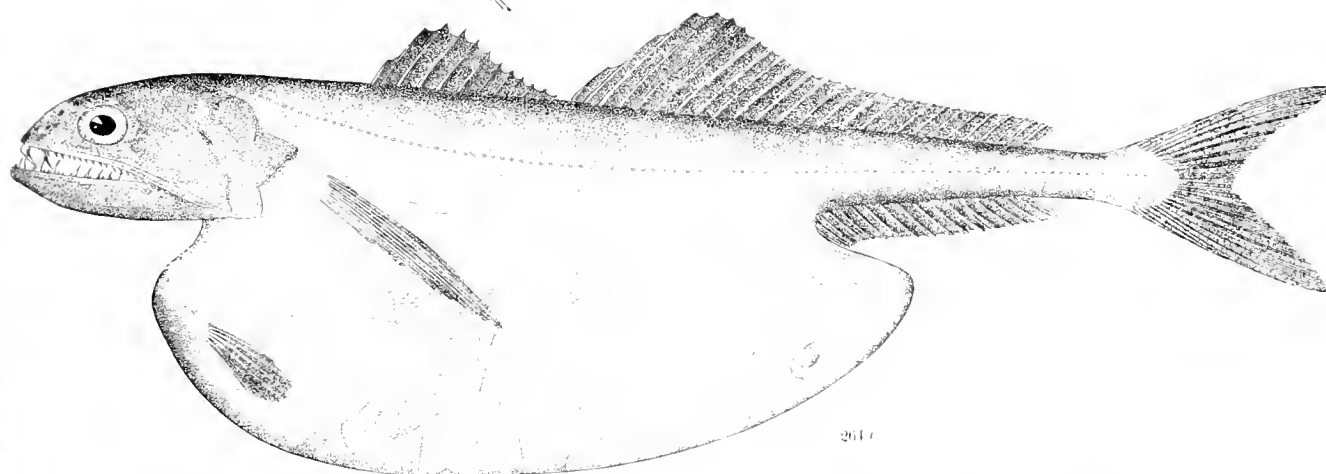
263



263a



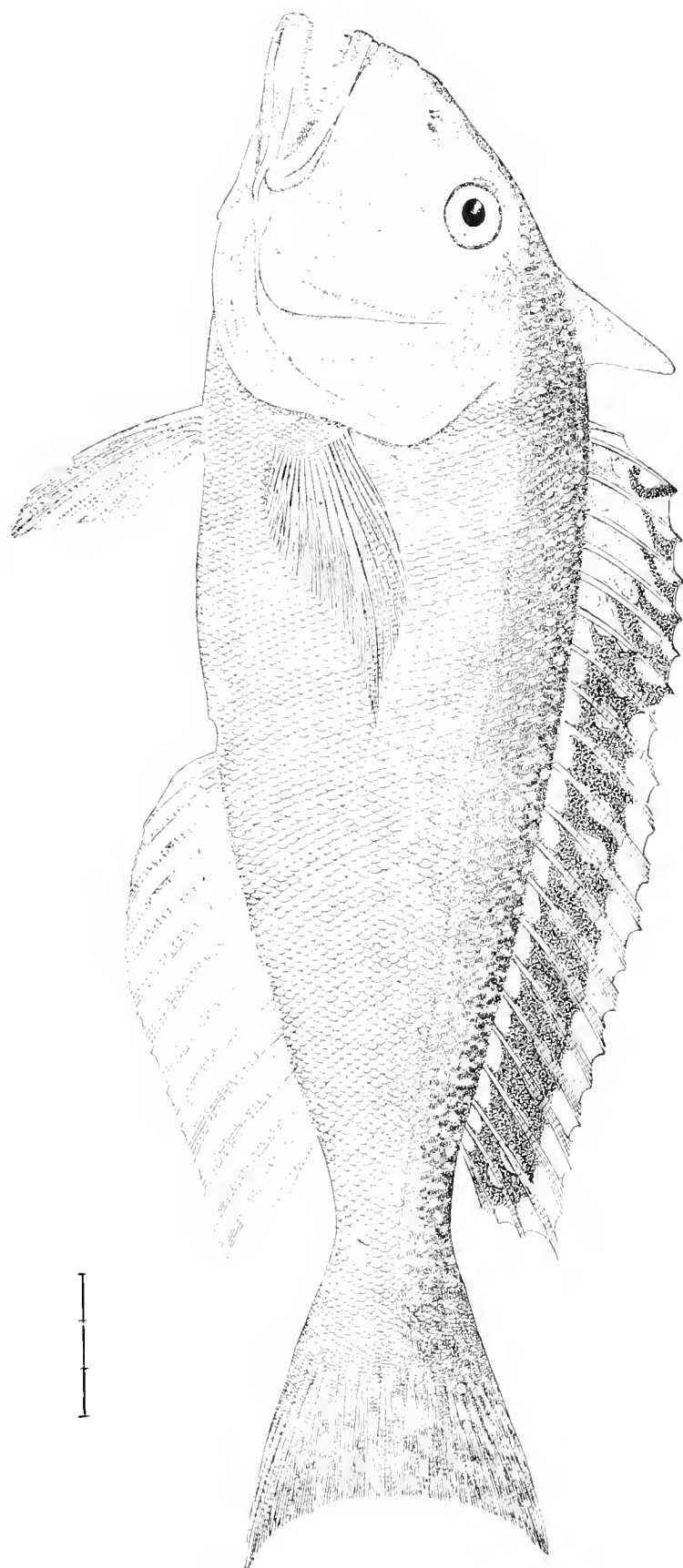
264



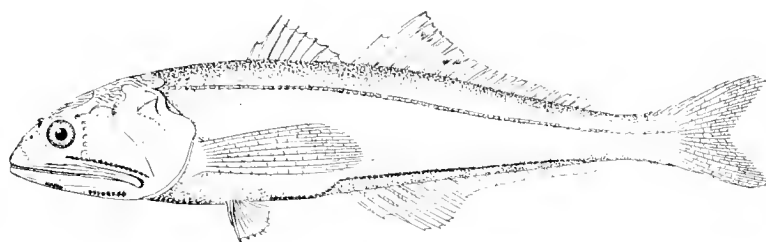
264a

263, 263a, b. *HYSICOMETES GOBIOIDES*. (p. 290.)

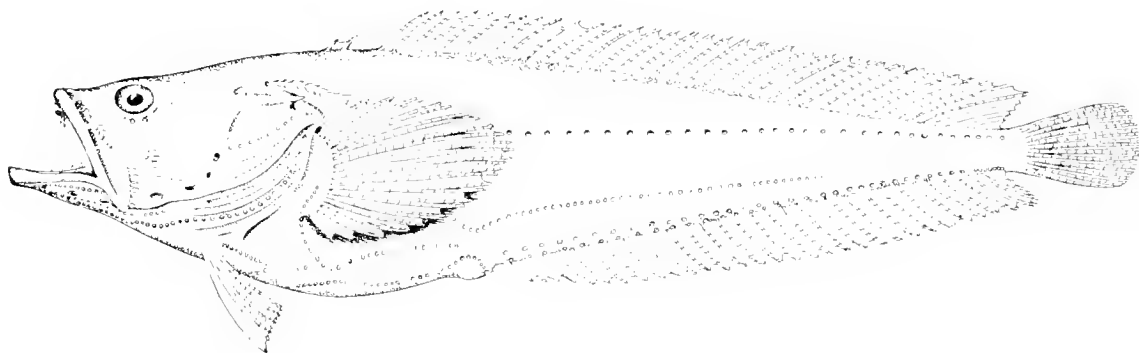
264, 264a. *CHIASMODON NIGER*. (p. 292.)



265. *LOPHOLATILUS CHAMAELONTICEPS*. (p. 284.)



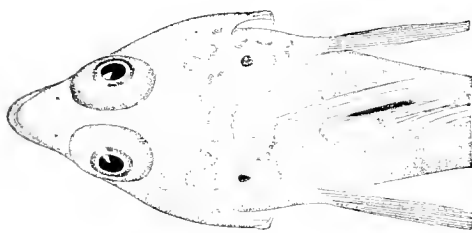
266



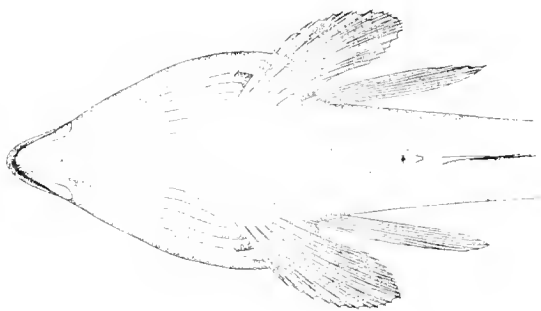
267



268



268a

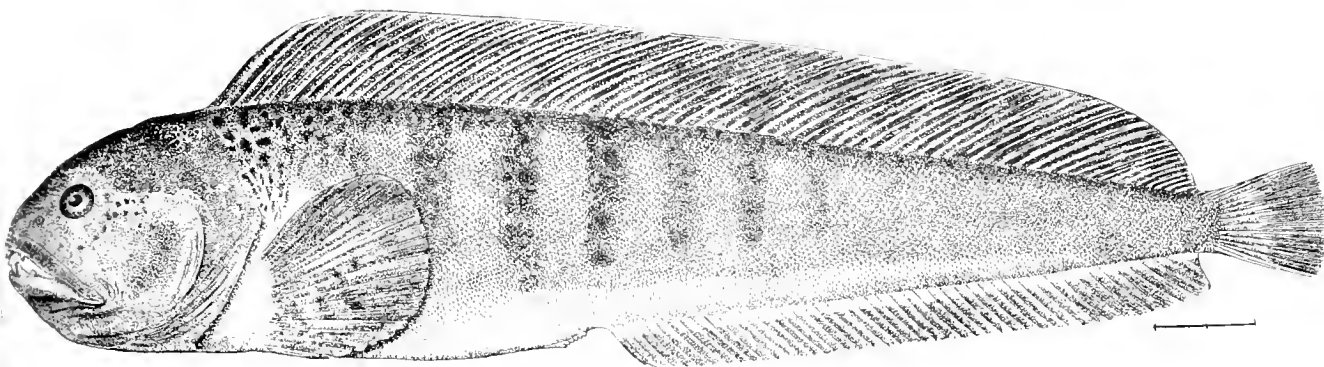


268b

266. *Pseudoscopelus scriptus*. (p. 292.)

267. *Porichthys porosissimus*. (p. 294.)

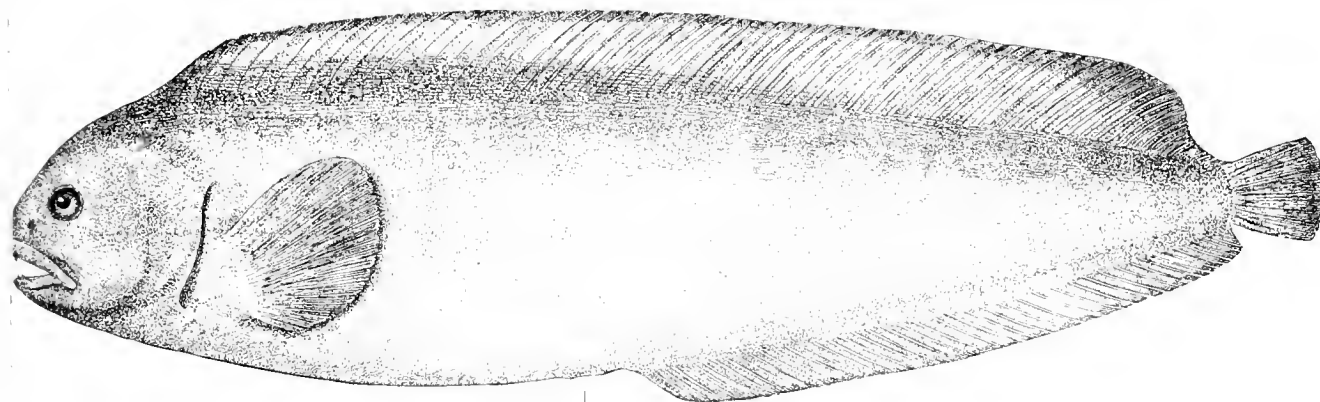
268, 268a, b. *Callionymus himantophorus*. (p. 296.)



269



270

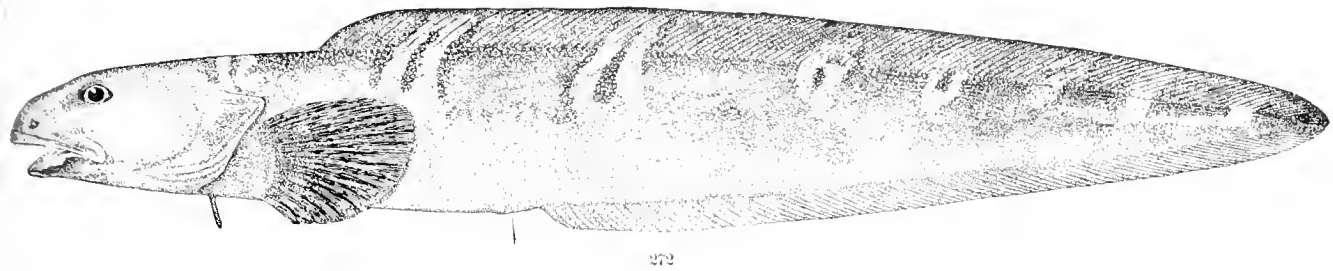


271

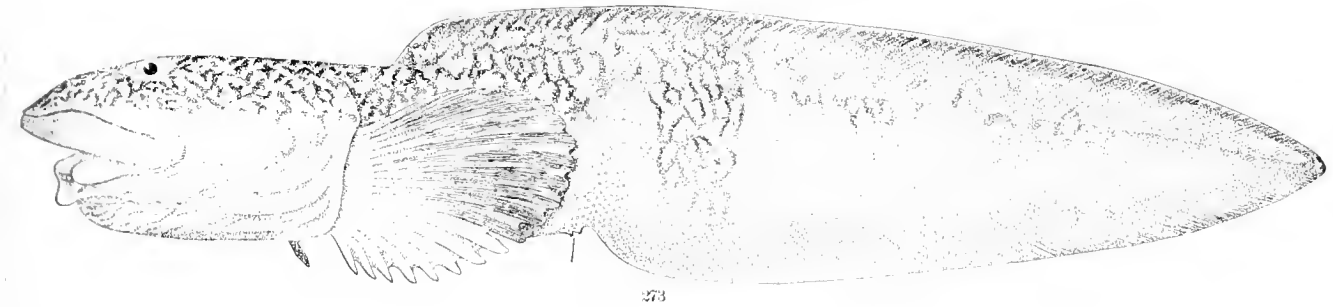
269. *ANARRHICHAS LATUS*. (p. 299.)

270. *ANARRHICHAS MINOR*. (p. 301.)

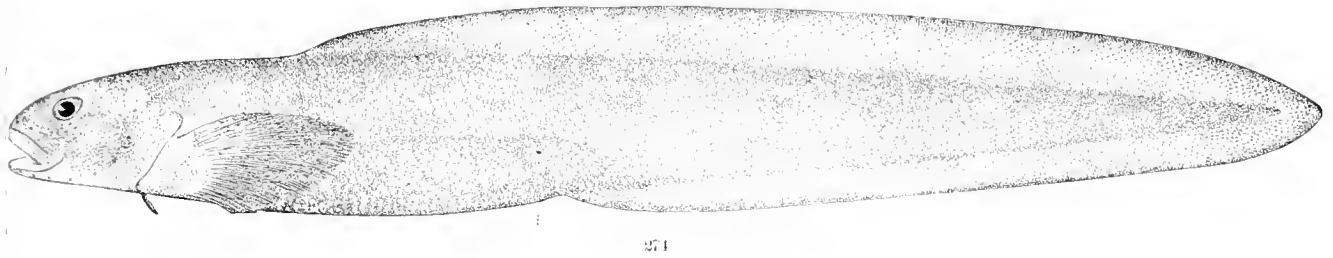
271. *ANARRHICHAS LATIFRONS*. (p. 301.)



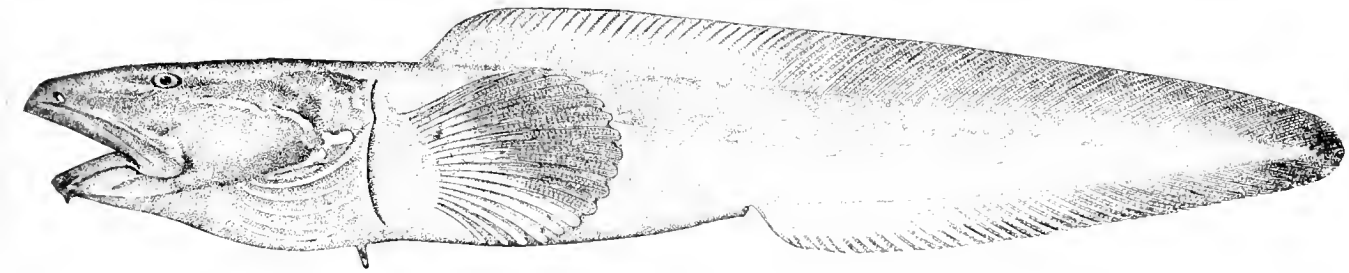
272



273



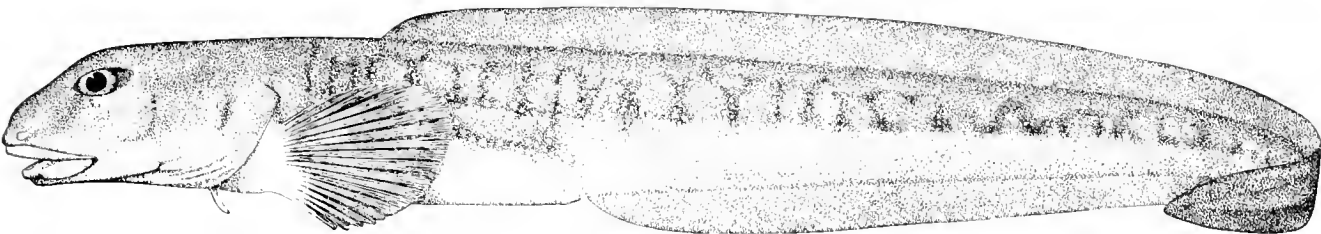
274



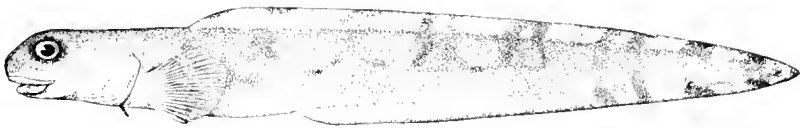
275

272. *LYCODES ESMARKII*. (p. 303.)
274. *LYCODES FRIGIDUS*. (p. 305.)

273. *LYCODES RETICULATUS*. (p. 305.)
275. *LYCODES MUCOSUS*. (p. 306.)



276



276a



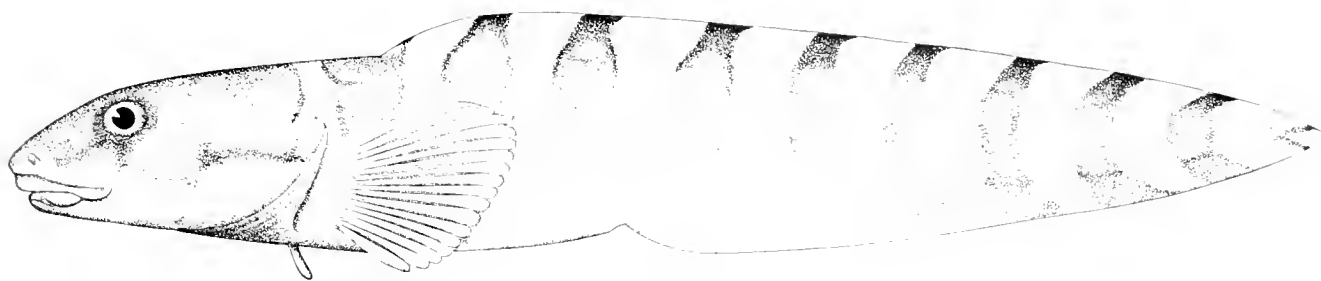
277



277a

276, 276a. *LYCODES ZOARCHUS*. (p. 308.)

277, 277a. *LYCENCHELYS VERRILLI*. (p. 309.)



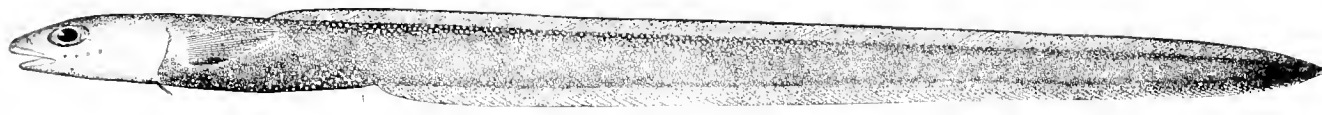
278



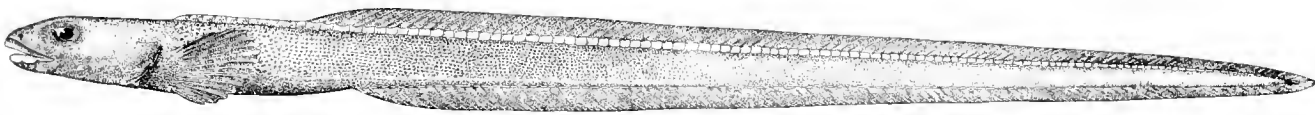
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279

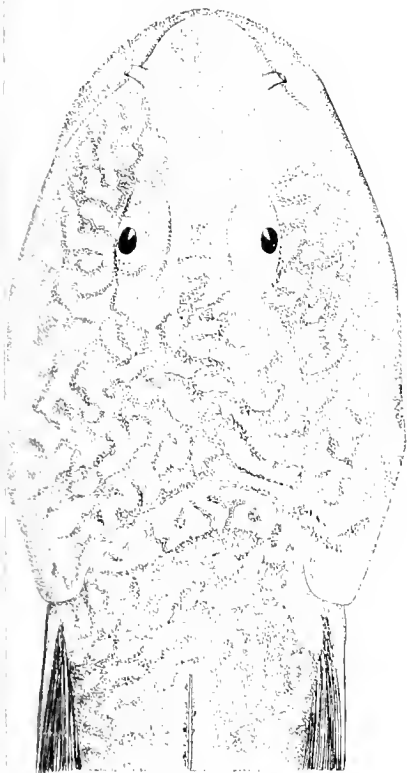


279a

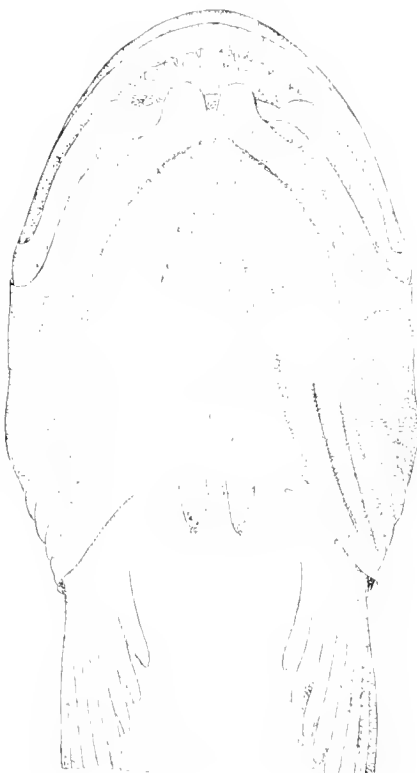


280

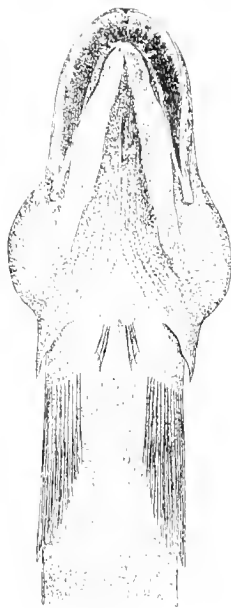
278, 278a. *LYCODES PERSPICILLUM*. (p. 307.) 279, 279a. *LYCENCHELYS PAXILLUS*. (p. 311.)
 280. *LYCODONUS MIRABILIS*. (p. 312.)



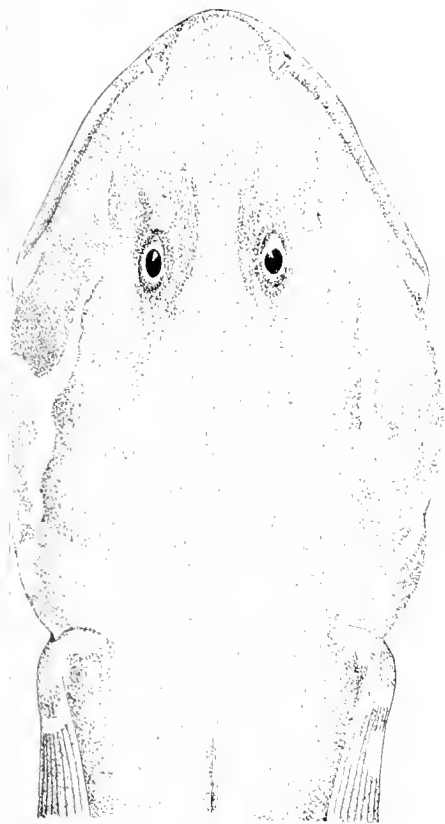
281a



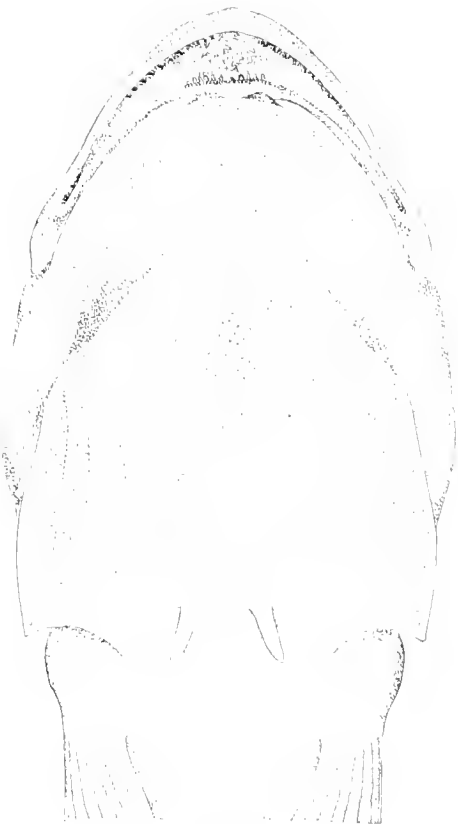
281b



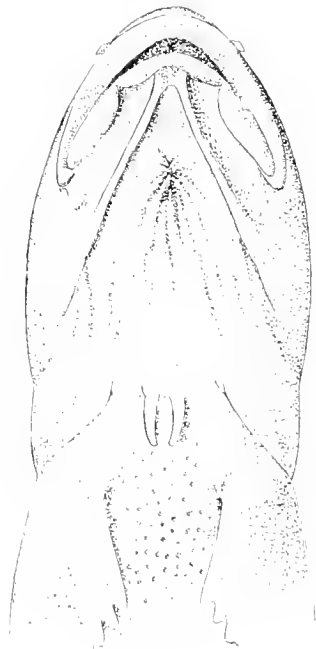
282



283a



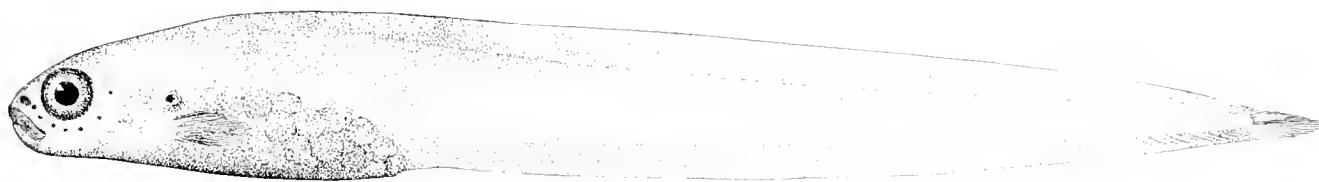
283b



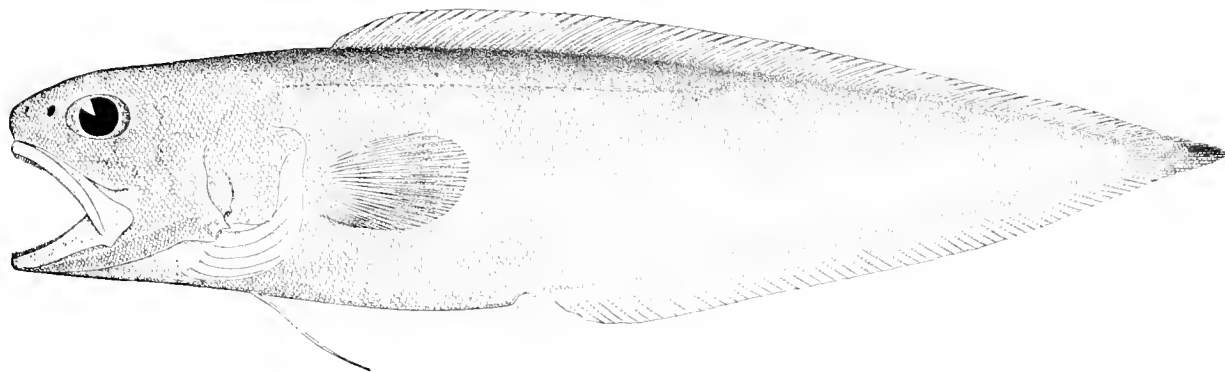
283c

281a, b. *LYCODES RETICULATUS*. (p. 305.)
283a, b. *LYCODES MUCOSUS*. (p. 306.)

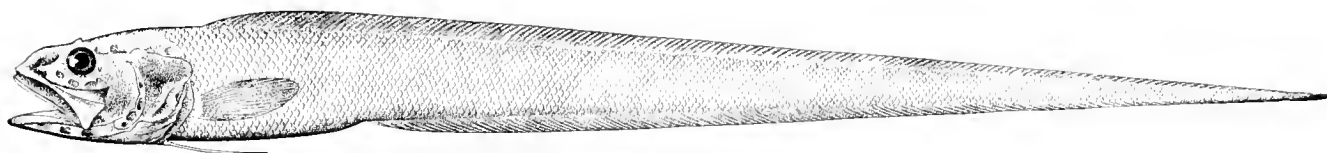
282. *LYCENCHELYS PAXILLUS*. (p. 311.)
283c. *LYCODES ZOARCHUS*. (p. 308.)



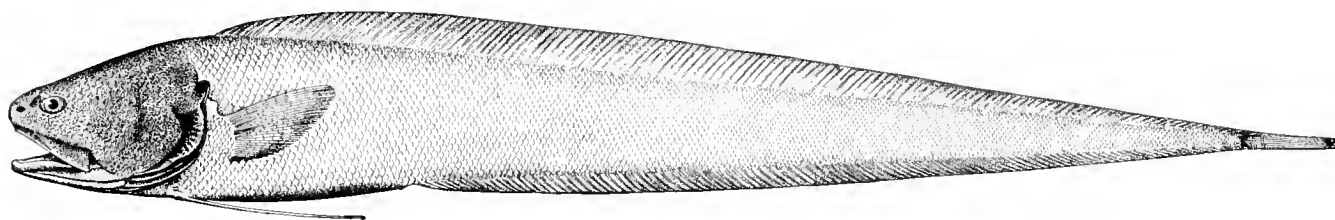
284



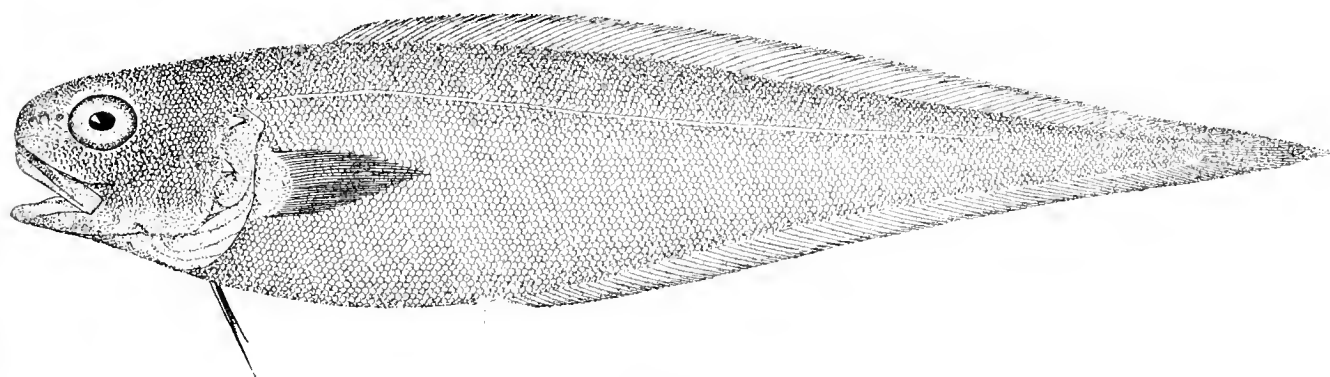
285



286



287



288

284. MELANOSTIGMA GELATINOSUM. (p. 311.)

286. BASSOZETUS CATENA. (p. 323.)

285. DICROMITA AGASSIZII. (p. 319.)

287. BASSOZETUS NORMALIS. (p. 322.)

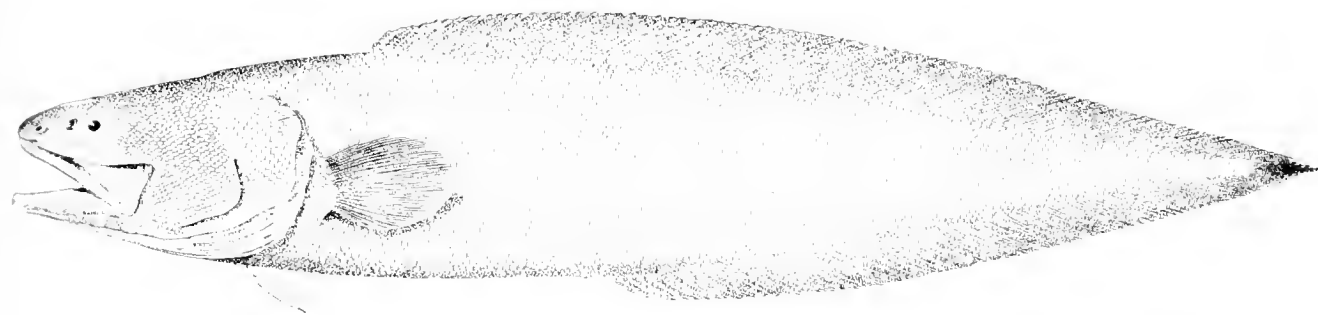
288. BENTHOCOMETES ROBUSTUS. (p. 327.)



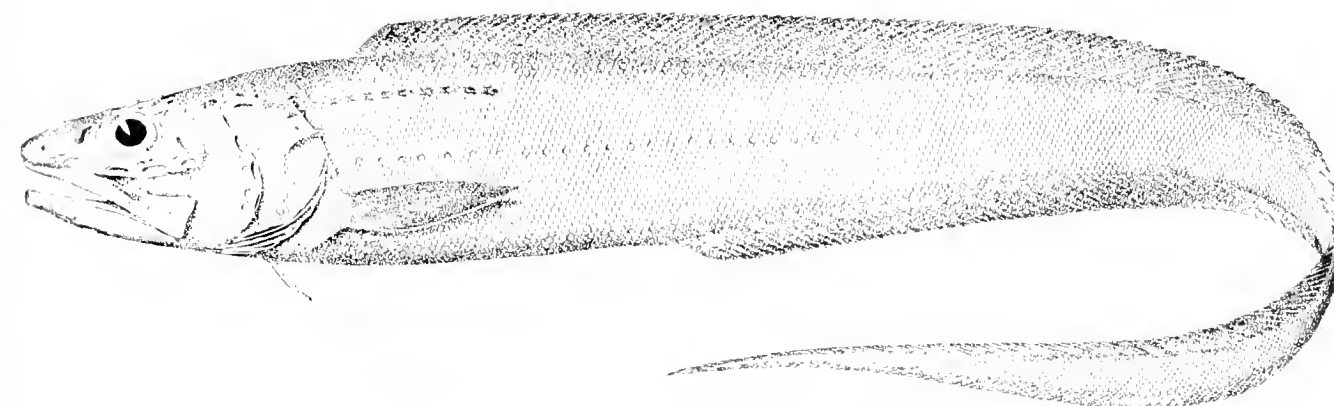
289



290



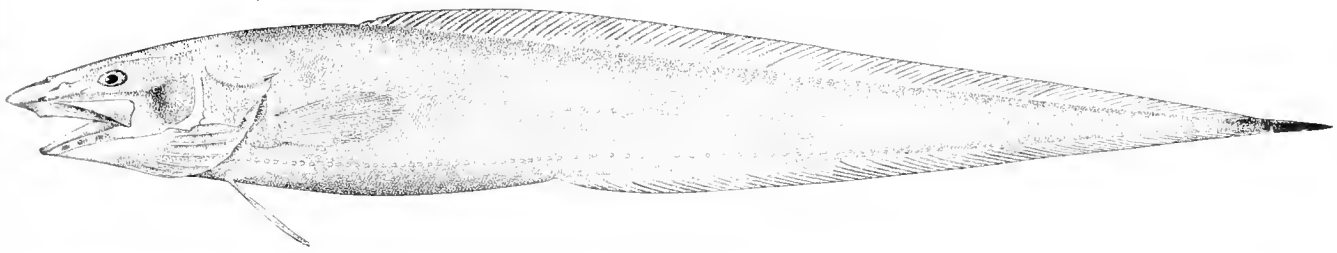
291



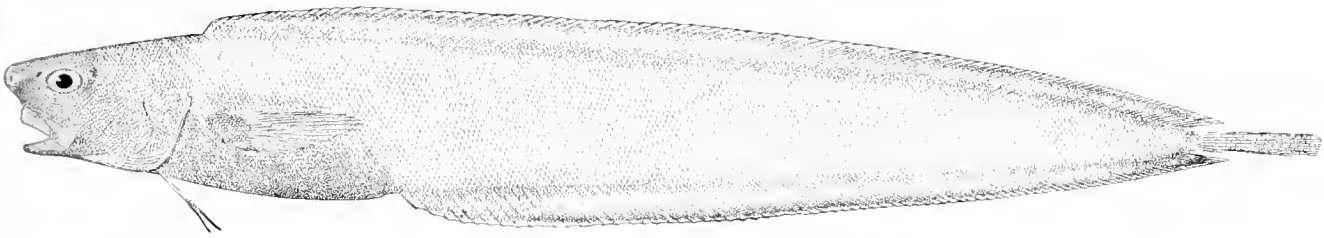
292

289. *NEOBYTHITES* GILLI. (p. 325.)
291. *BASSOGIGAS* GILLI. (p. 328.)

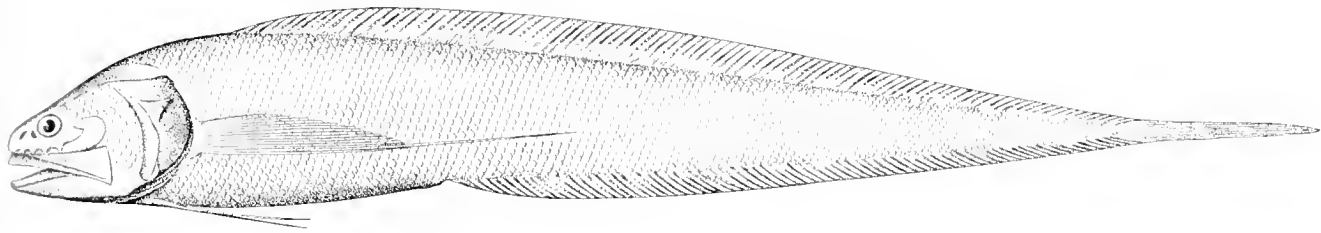
290. *NEOBYTHITES* MARGINATUS. (p. 326.)
292. *POROGADUS* MILES. (p. 331.)



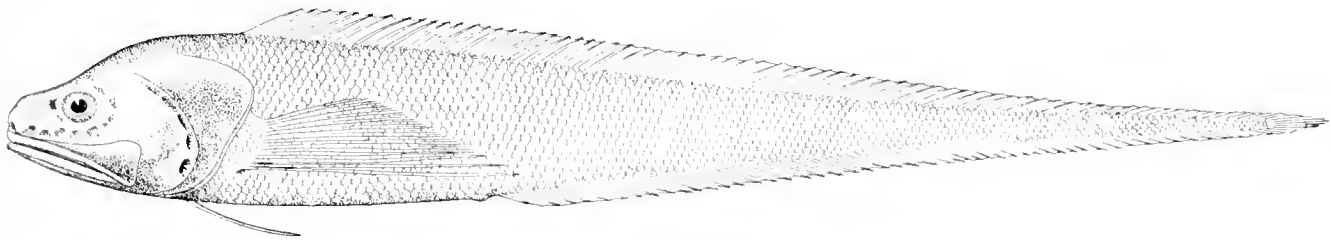
293



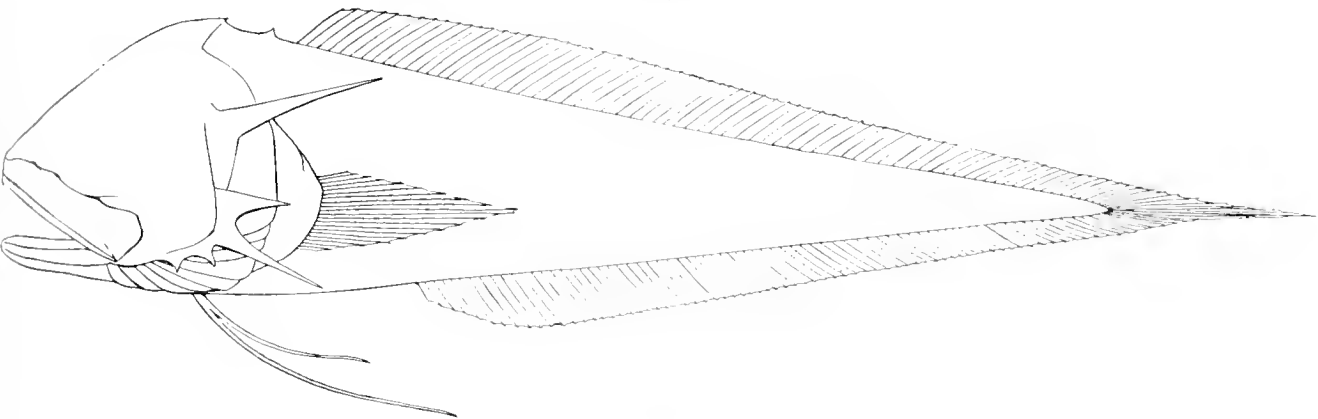
294



295



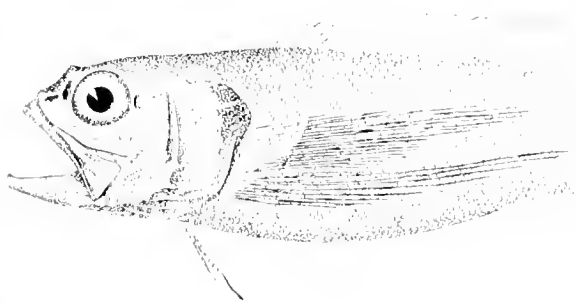
296a



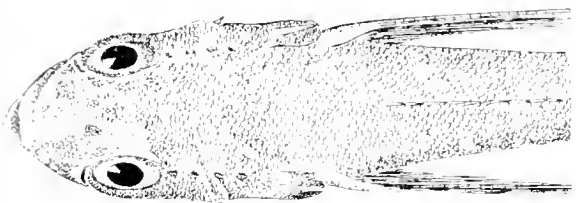
296b

293. *PENOPUS MACDONALDI*. (p. 336.)
295. *NEMATONUS PECTORALIS*. (p. 333.)

294. *BARATHRODEMUS MANATINUS*. (p. 332.)
296a. *MIXONUS LATICEPS*. (p. 331.)
296b. *TAUREBOTRIUM HEXTH*. (p. 336.)



297



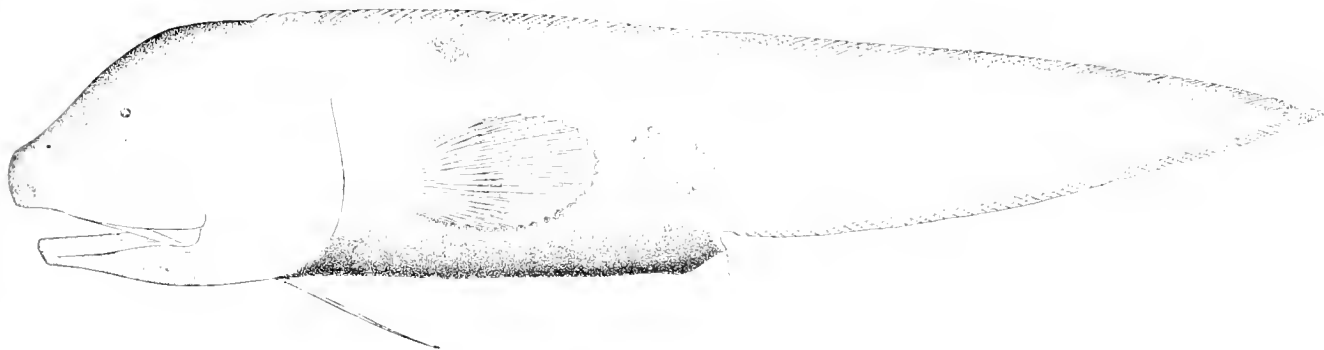
297a



297b



298

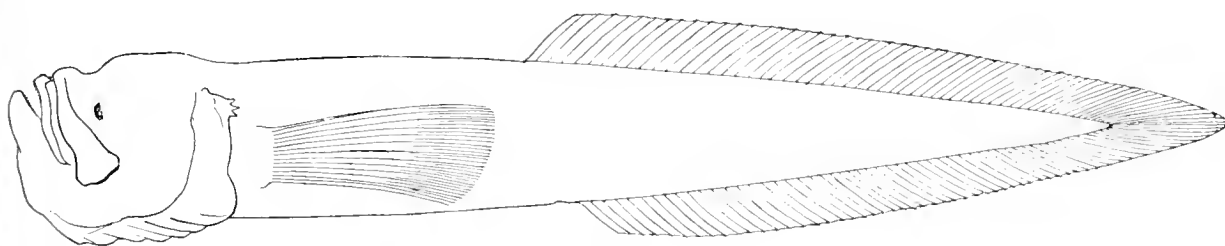


299

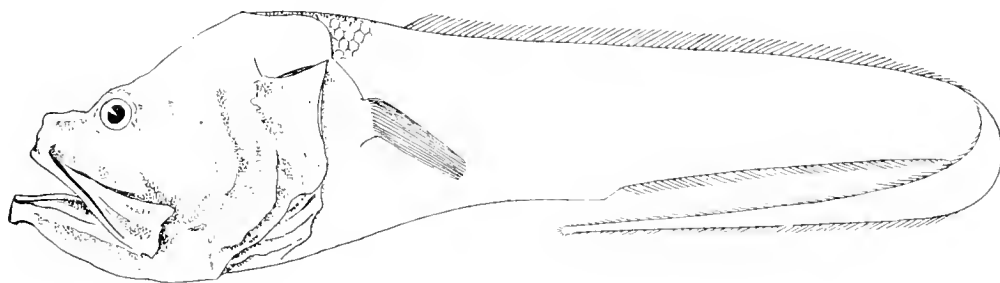
297, 297a, b. *DICROLENE INTRONIGRA*. (p. 338.)

298. *PARATHIONUS BICOLOR*. (p. 341.)

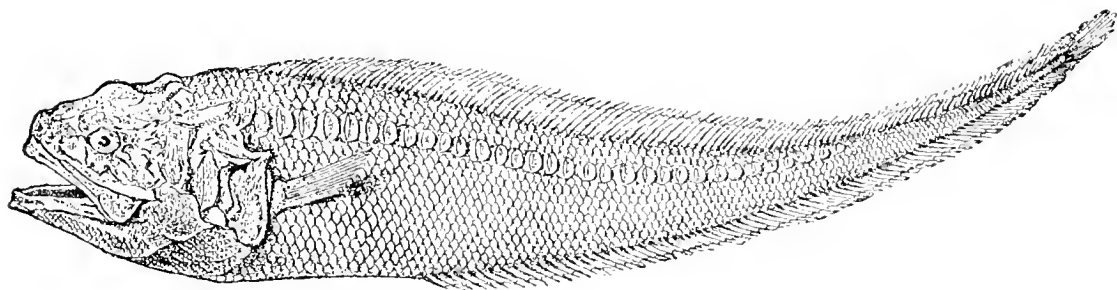
299. *APHTHIONUS MOLLIS*. (p. 342.)



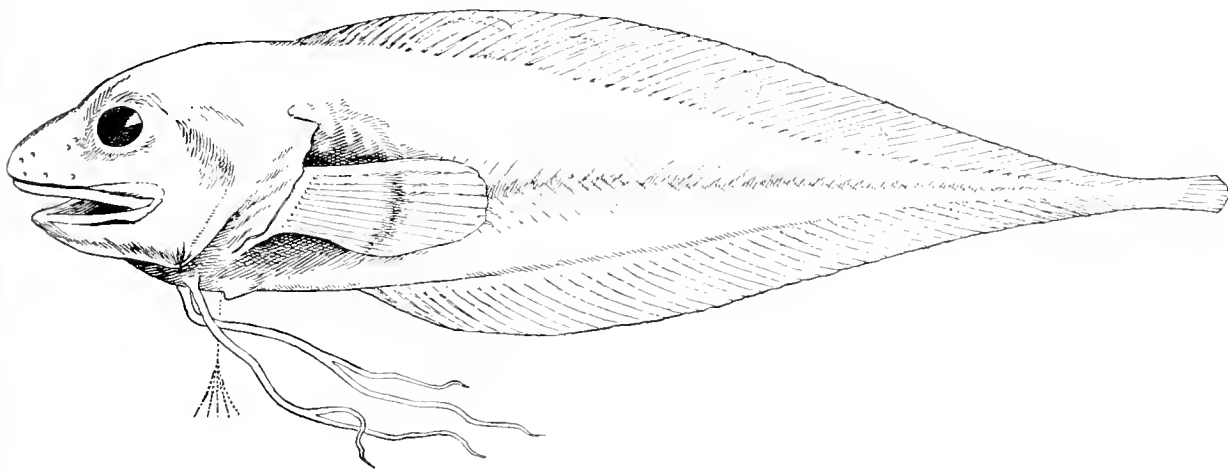
300



301



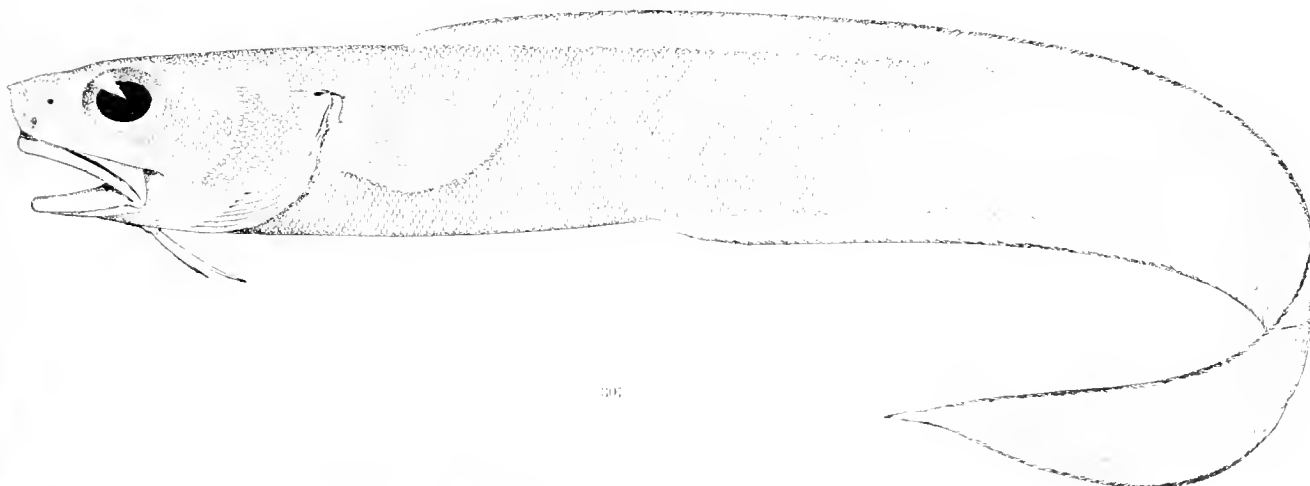
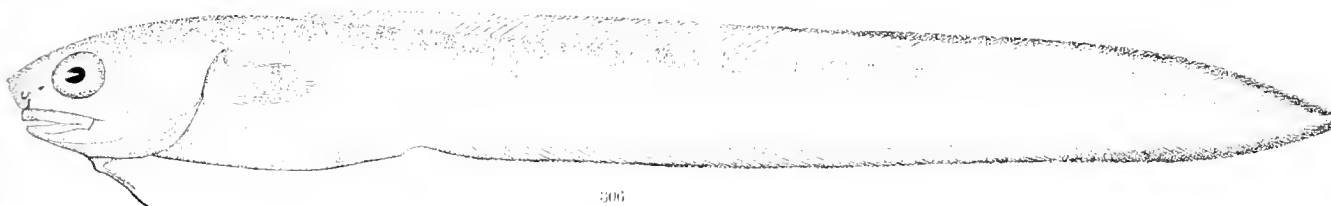
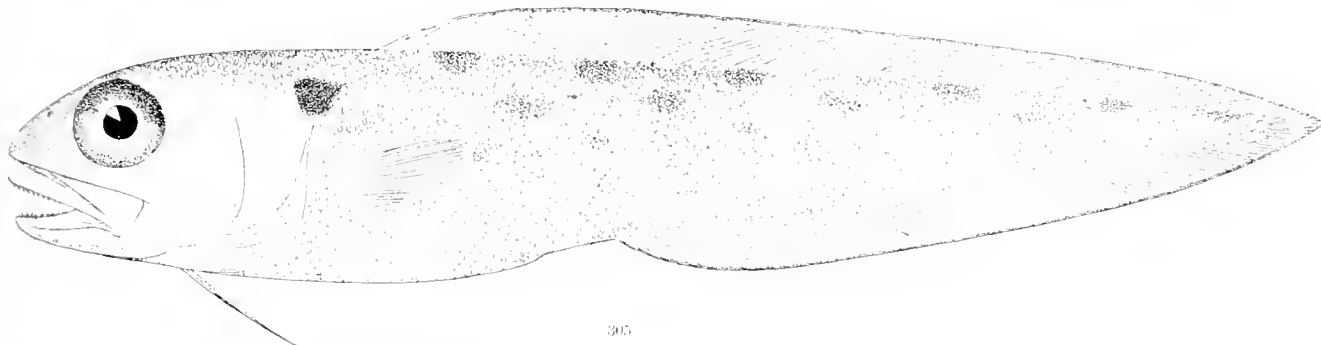
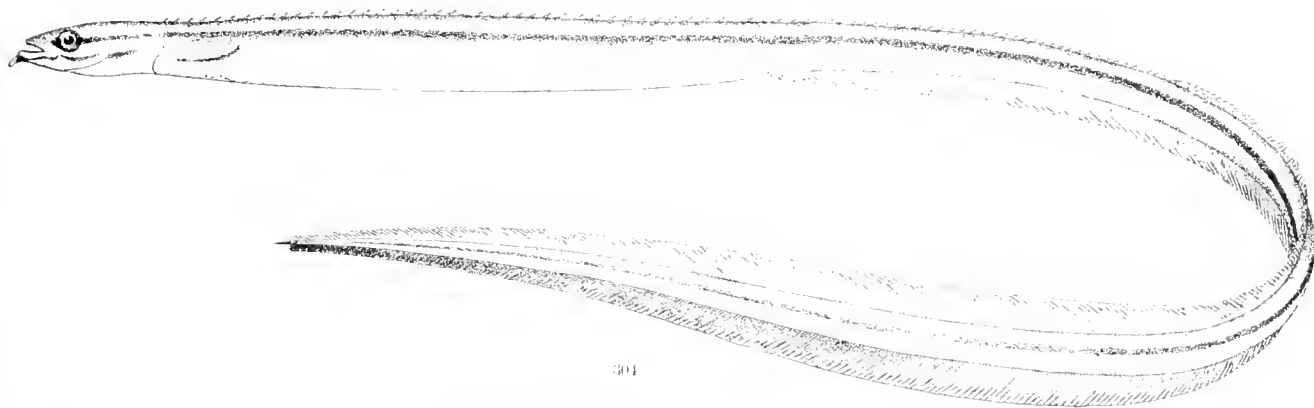
302



303

300. ALEXETERION PARVIFILI. (p. 343.)
302. LAMPROGRAMMUS NIGER. (p. 344.)

301. HEPHTOCARA SIMUM. (p. 344.)
303. RHODICTHYS REGINA. (p. 342.)



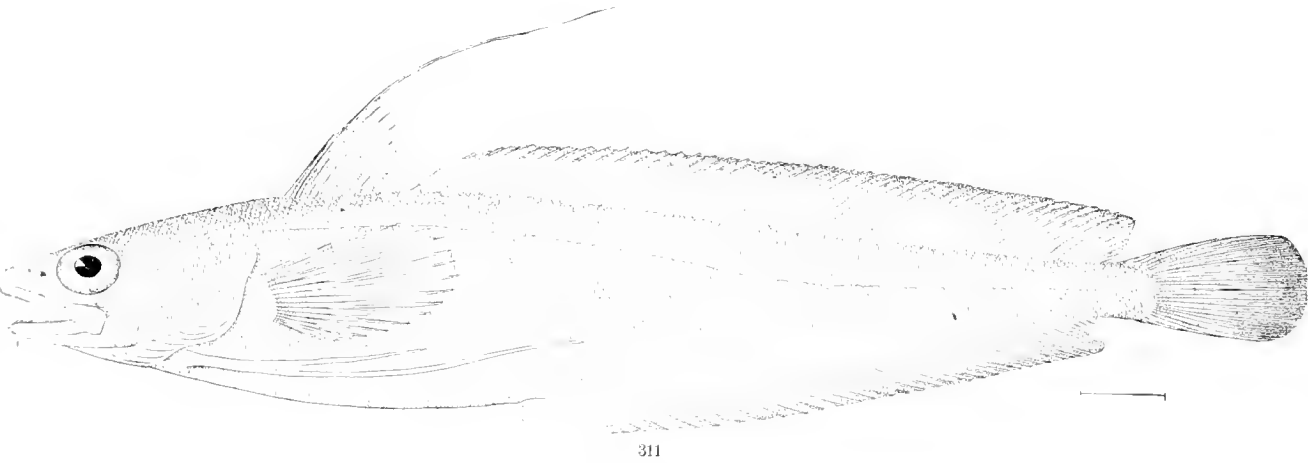
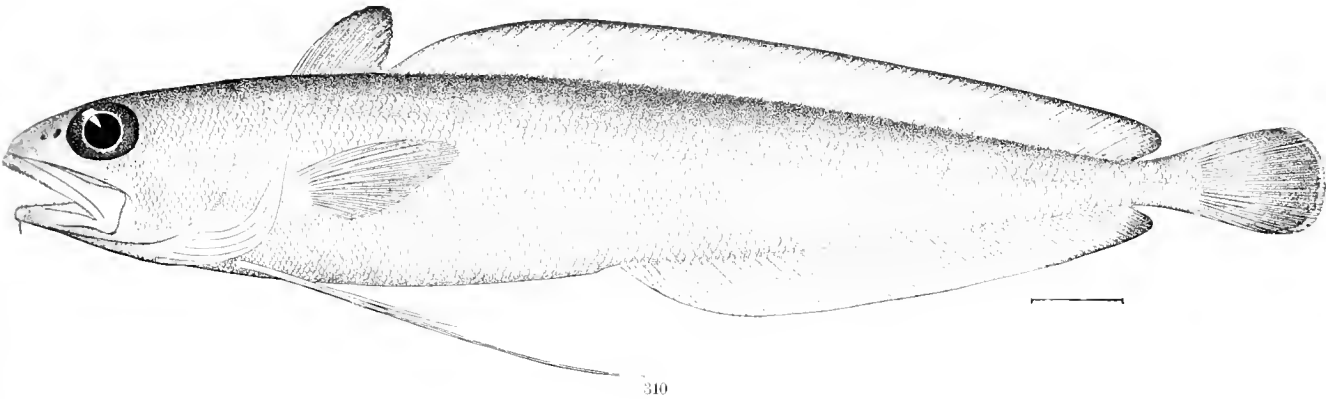
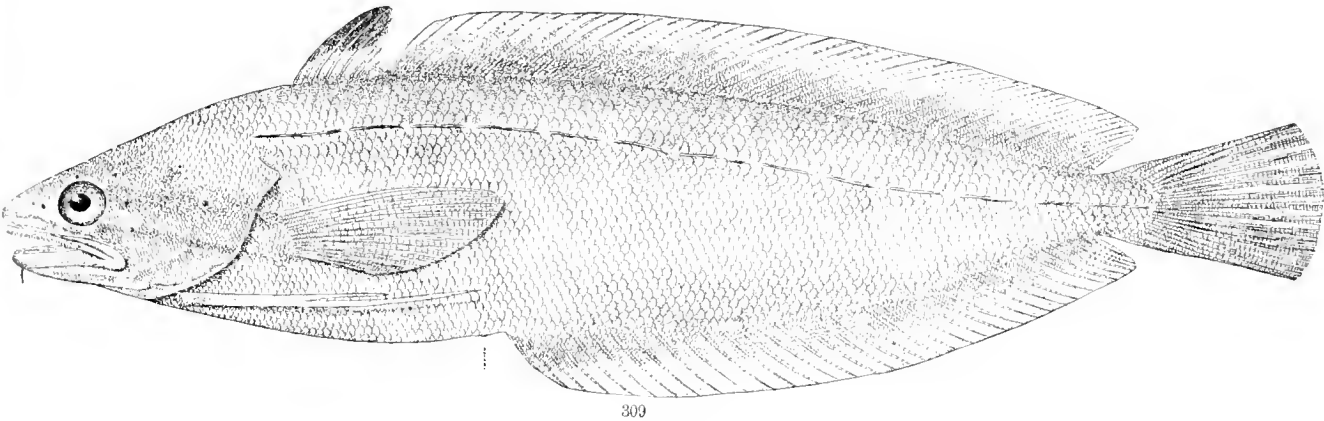
304. *Ptychocheilus* Goode, l. (p. 302.)

306. *Leptorhynchus cervinus*, (p. 316.)

308. *Leptorhynchus marmoratus*, (p. 318.)

305. *Ophichthys omostigma*, (p. 315.)

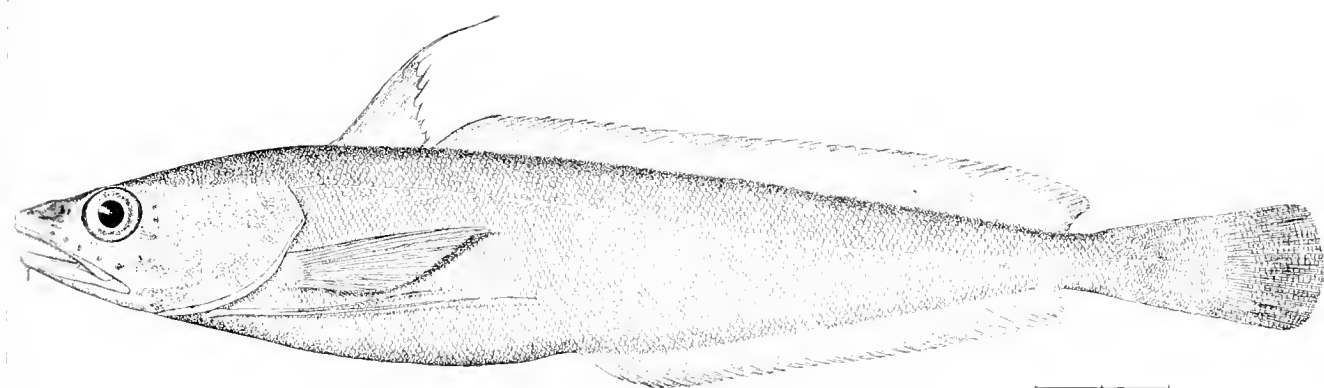
307. *Leptorhynchus profundus*, (p. 317.)



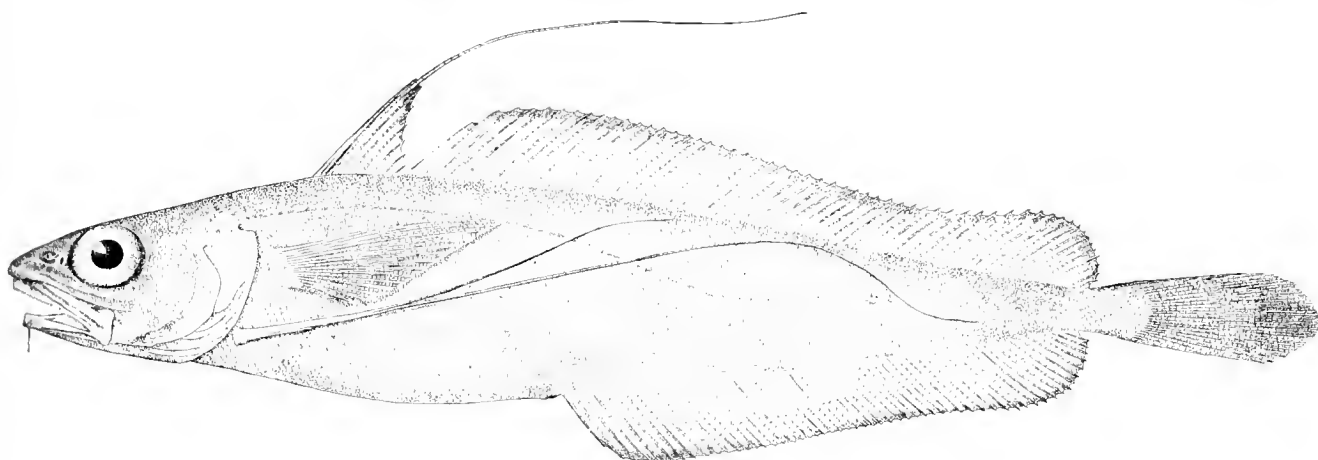
309. PHYCIS REGIUS. (p. 357.)

310. PHYCIS CIRRATUS. (p. 358.)

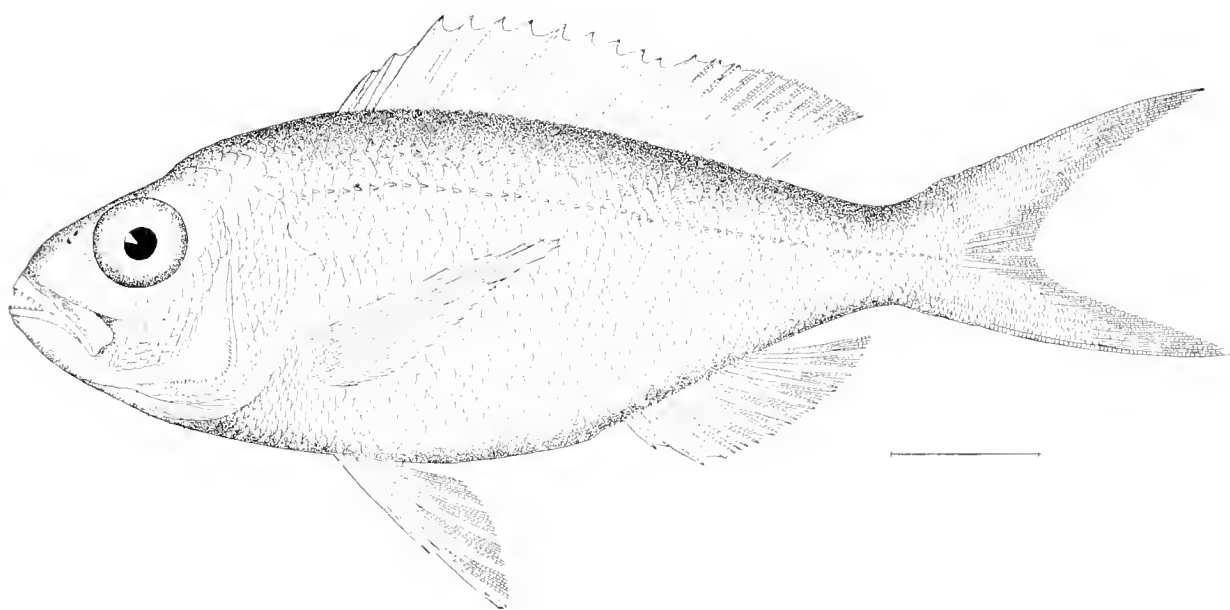
311. PHYCIS CHUSS. (p. 359.)



312



313

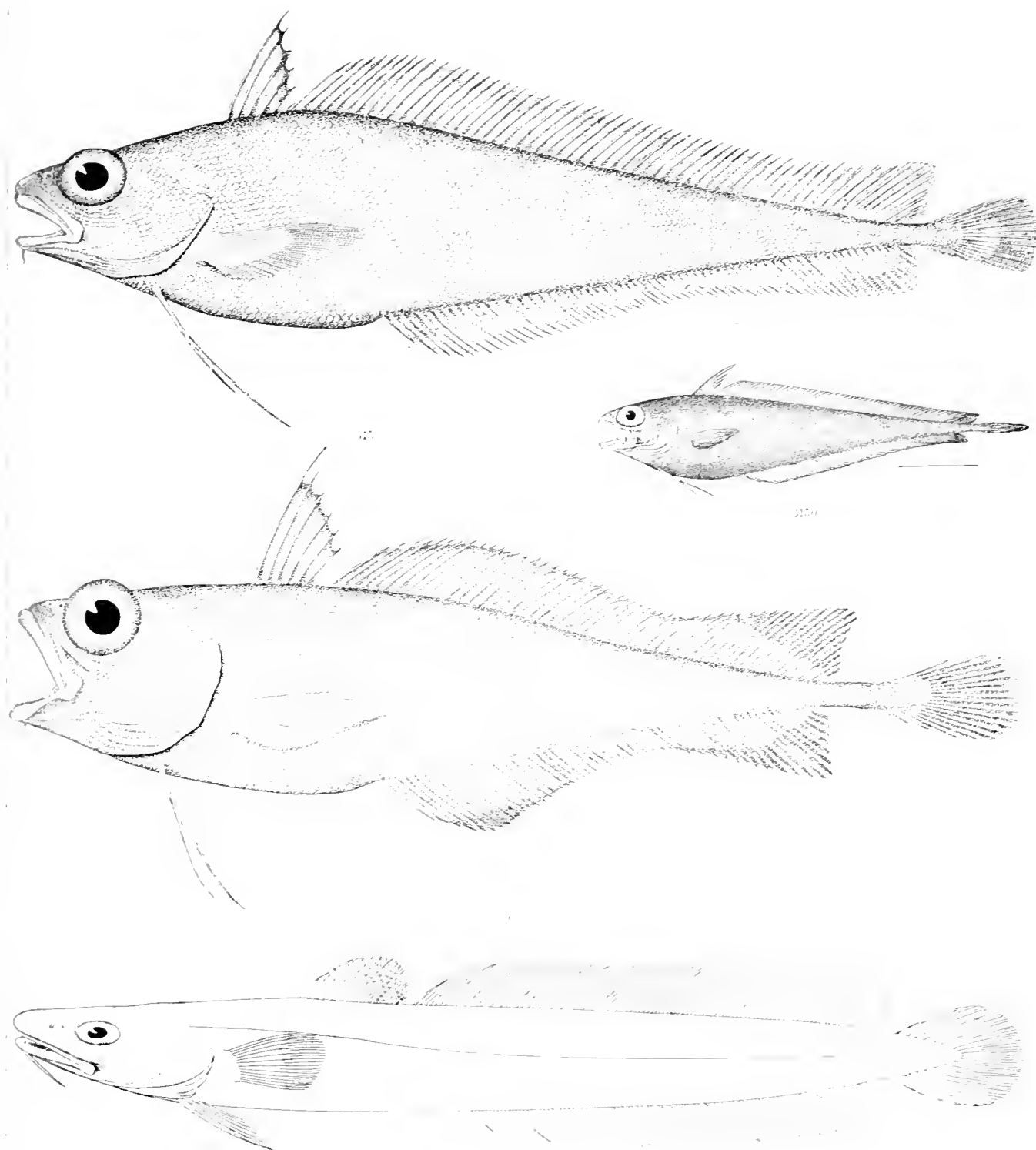


314

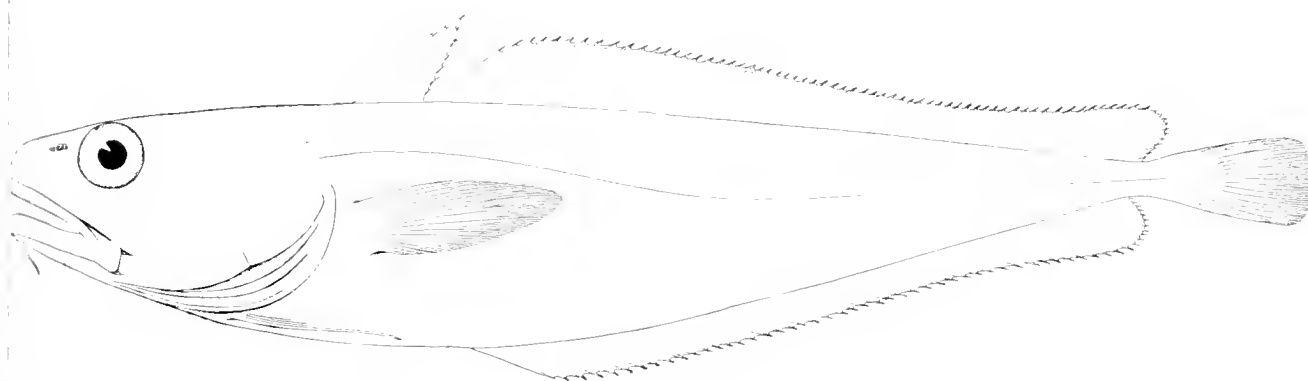
312. *PHYSIC TENUIS*. (p. 359.)

313. *PHYSIC CHESTERI*. (p. 360.)

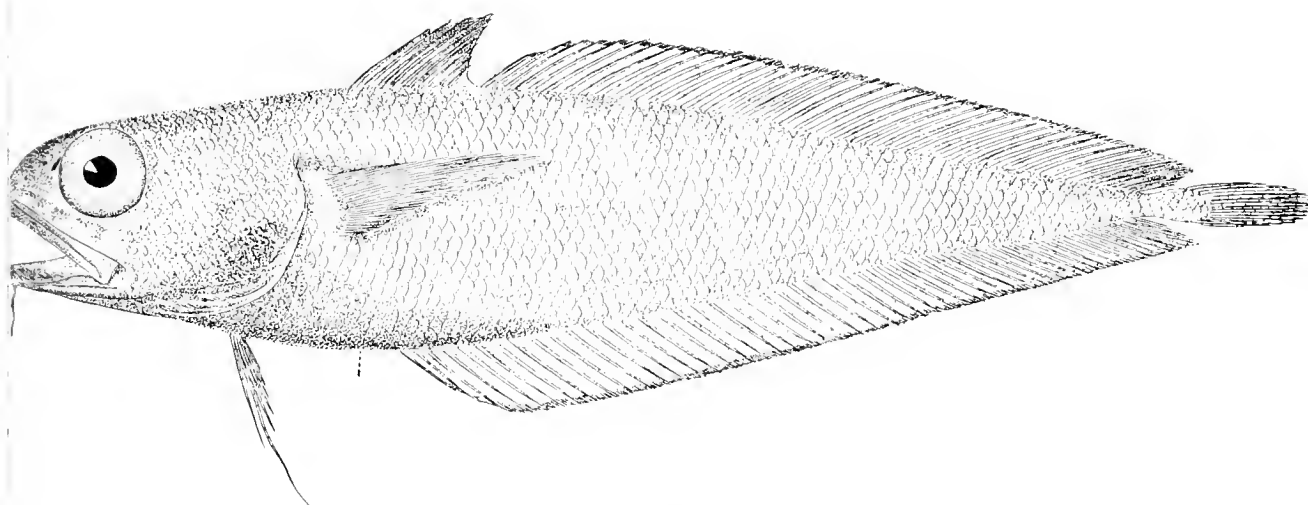
314. *APRION MACROPHthalmus*. (p. 239.)



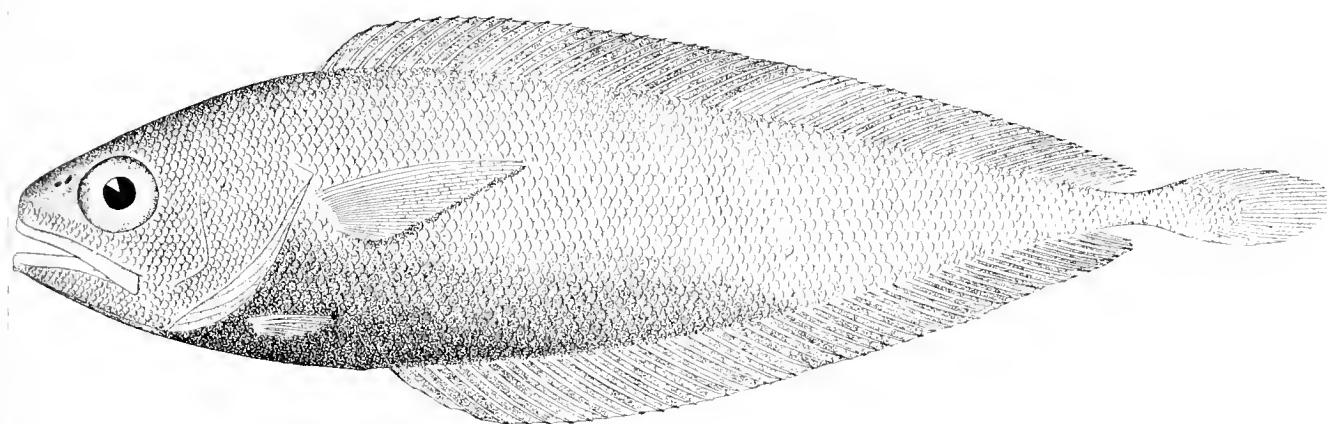
315, 315a, *LEMONEMA BARBATULA* p. 362. 316, *LEMONEMA MELANURUM* p. 363.
317, *MOLA CAUDIGERIS* p. 36



318



319

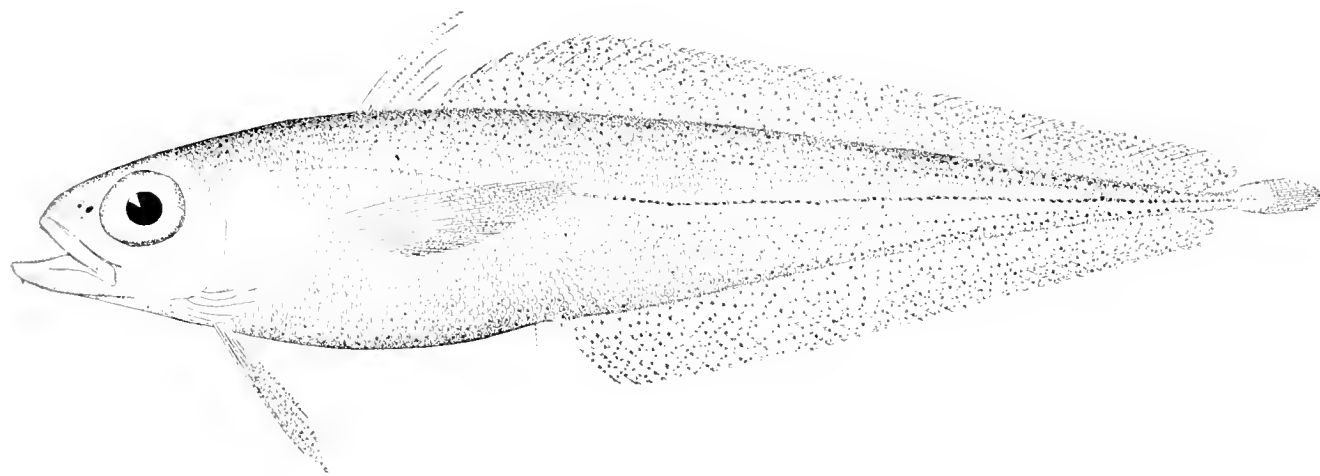


320

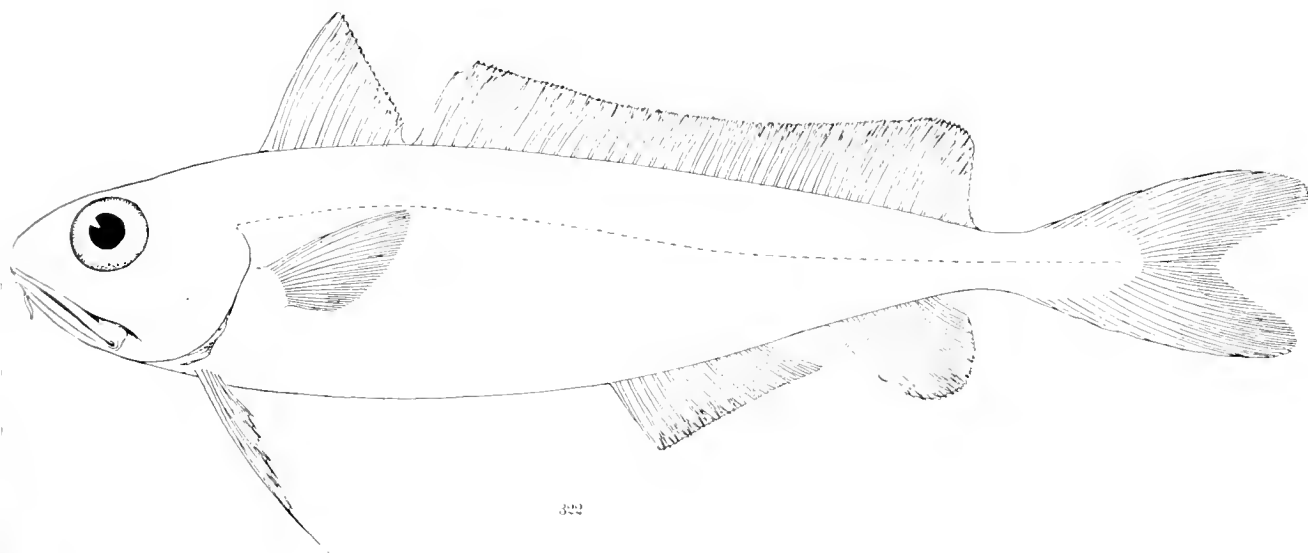
318. *PHYSICULUS KAUPII*. (p. 366.)

319. *PHYSICULUS FULVUS*. (p. 366.)

320. *URALEPTUS MARALDI*. (p. 367.)



321



322

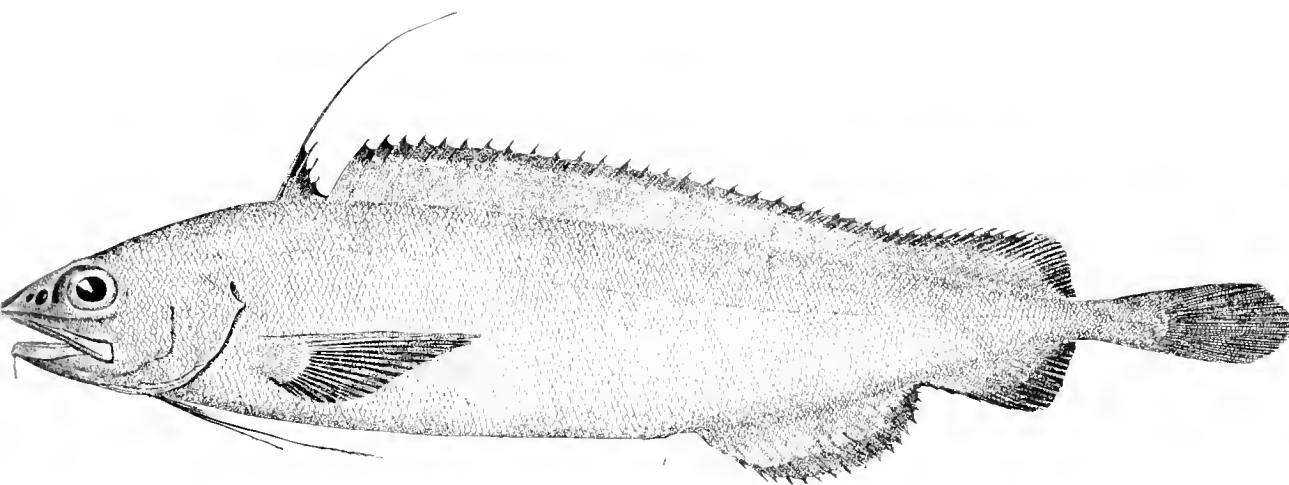


323

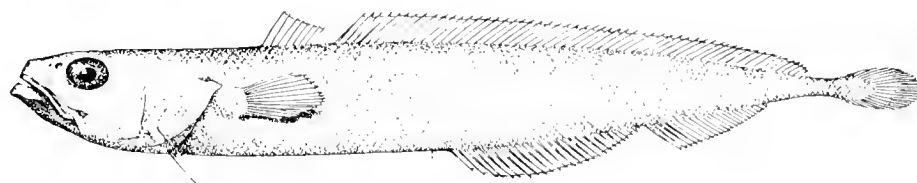
321. *LOTELLA MAXILLARIS*. (p. 368.)

322. *MORA MEDITERRANEA*. (p. 369.)

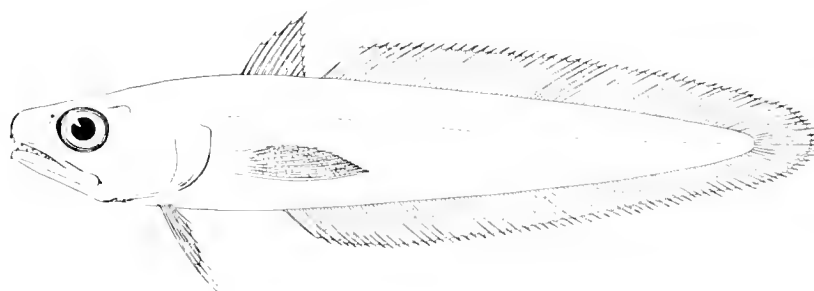
323. *LEPIDION* RISSOL. (p. 370.)



324



325

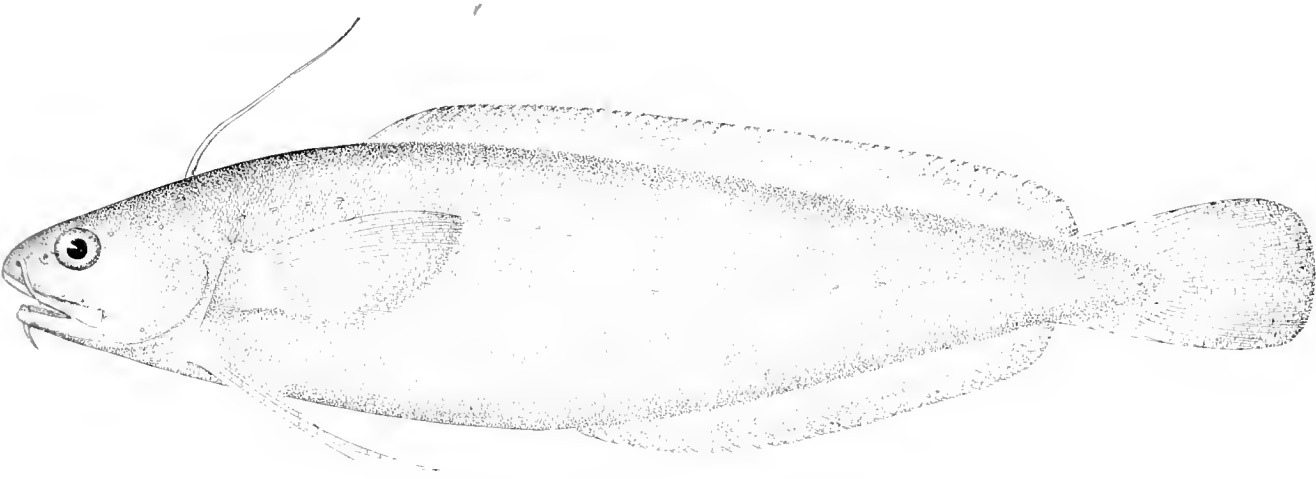


326

324. *ANTIMORA VIOLA*. (p. 372.)

325. *HALARGYREUS BREVIPES*. (p. 375.)

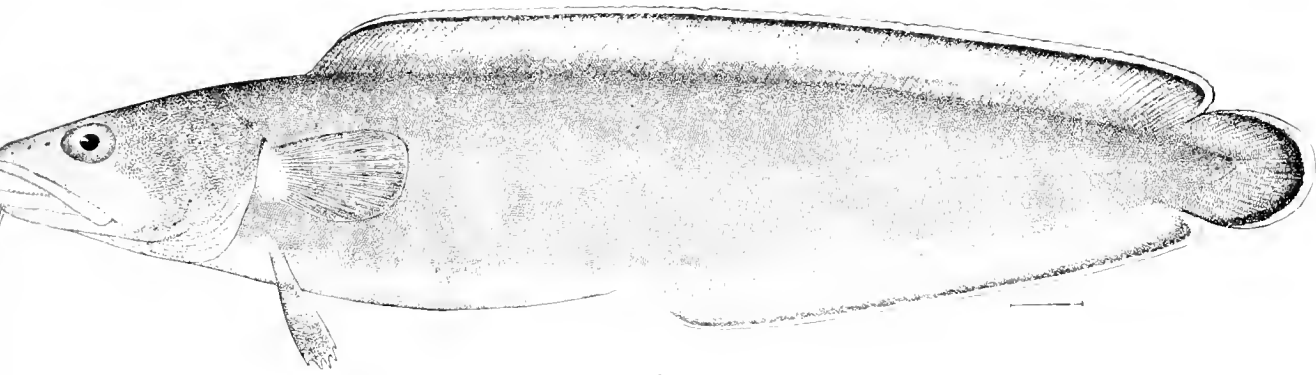
326. *STRINSIA TINCA*. (p. 380.)



327



328

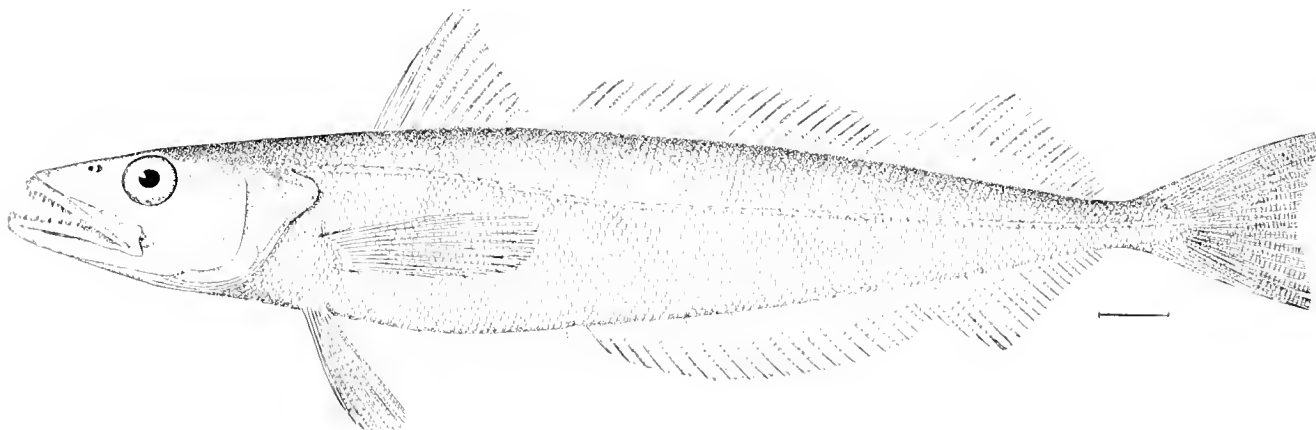


329

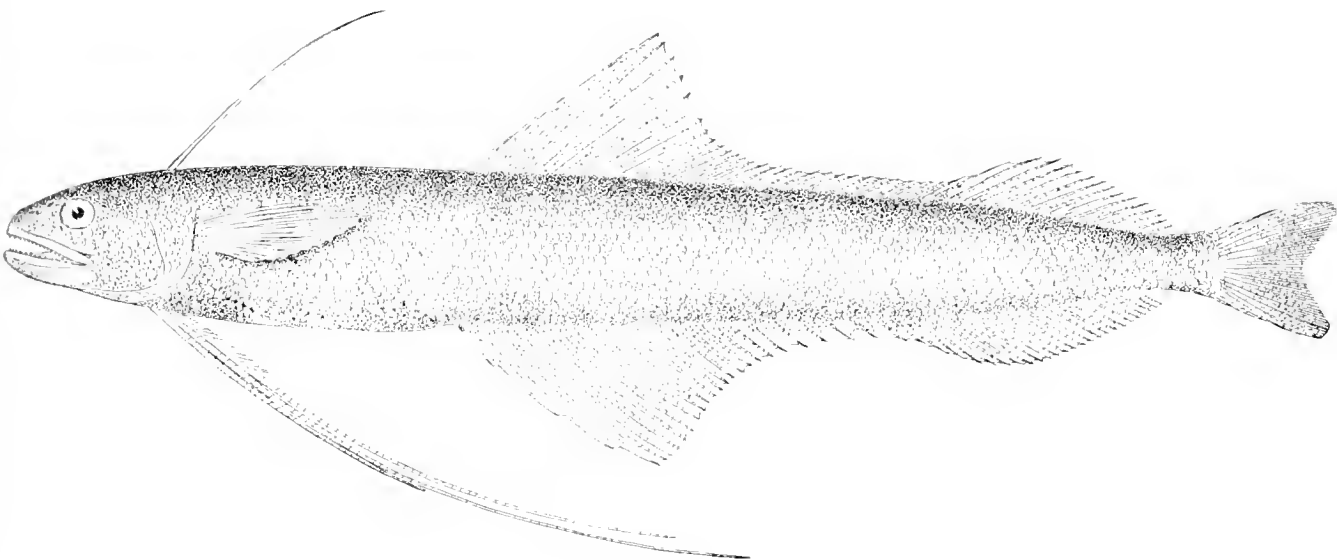
327. *ONOS ENSIS.* (p. 384.)

328. *RHINONEMUS CIMBIUS.* (p. 384.)

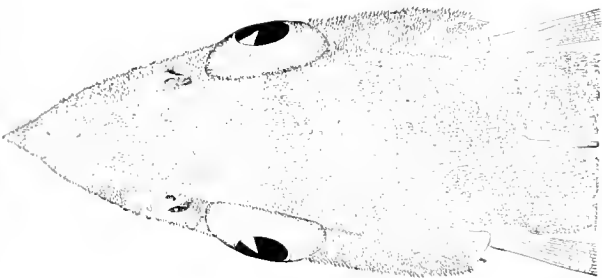
329. *BROSMUS BROSME.* (p. 385.)



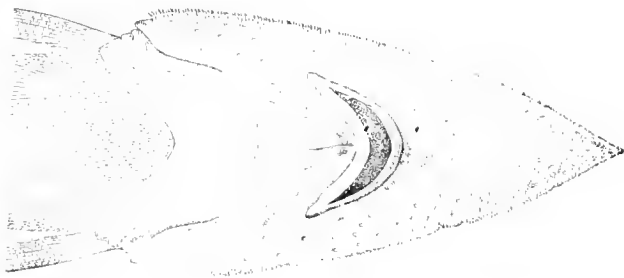
330



331



332

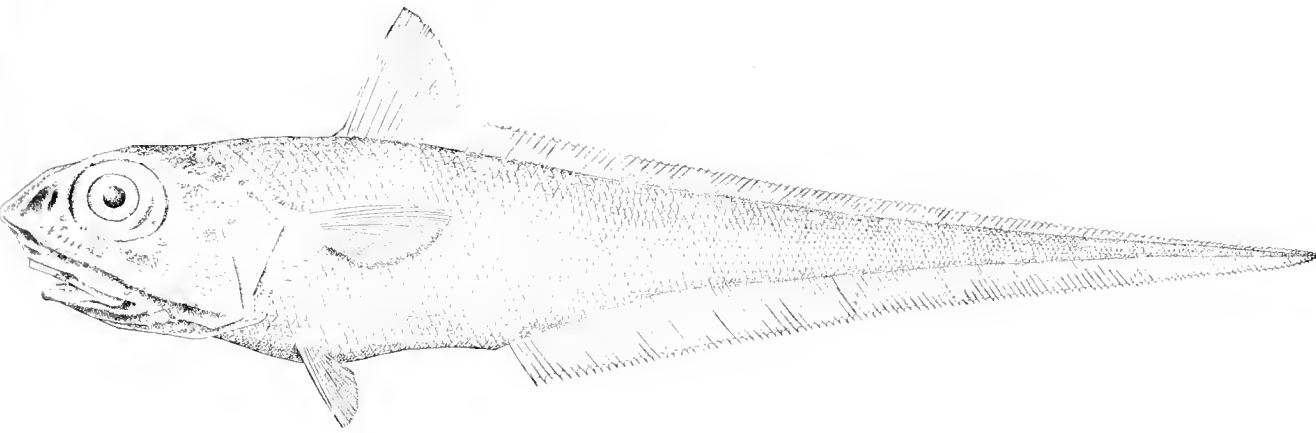


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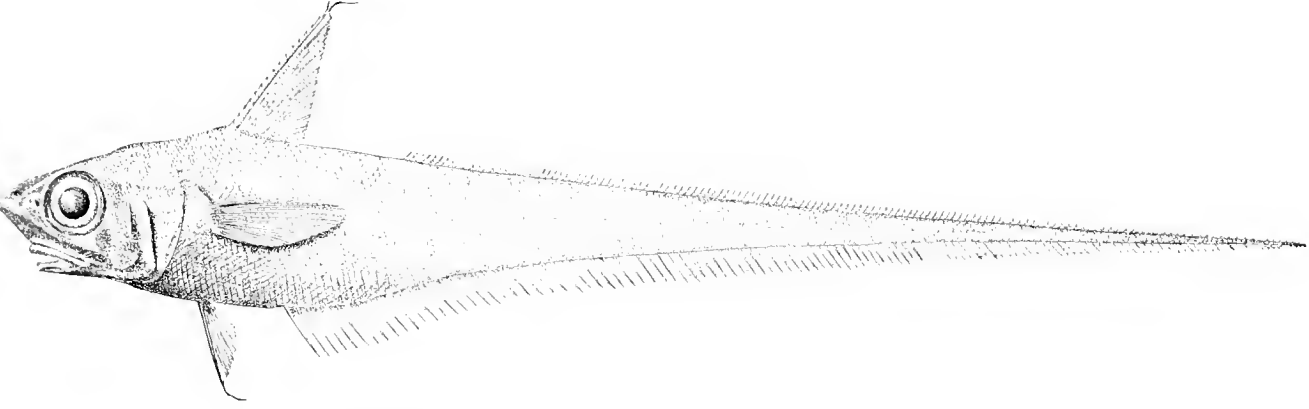
330. MERLUCCIUS BILINEARIS. (p. 386.)

331. BREGMACEROS ATLANTICUS. (p. 388.)

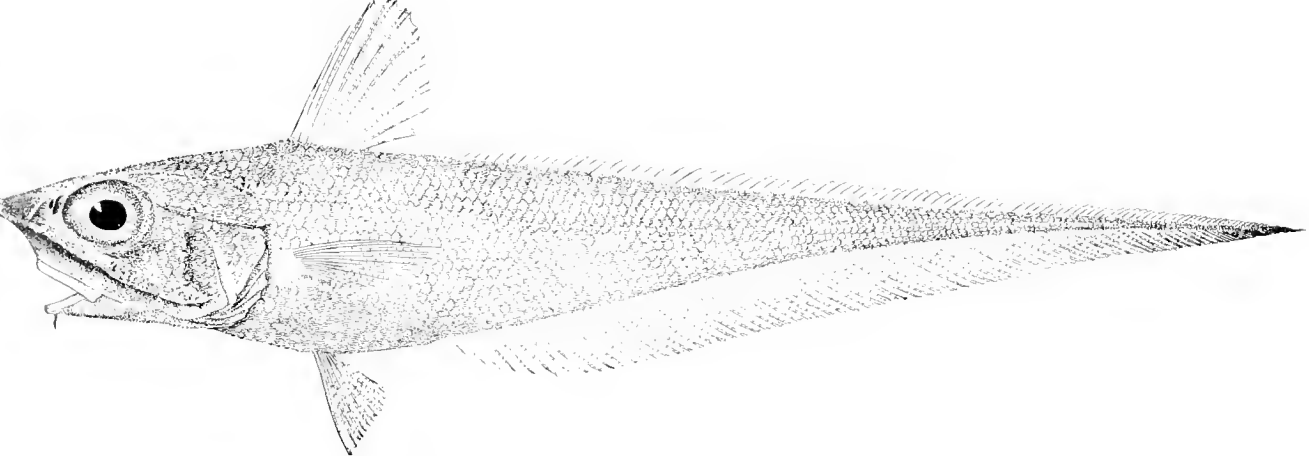
332, 333. CELORHYNCHUS OCCA. (p. 400.)



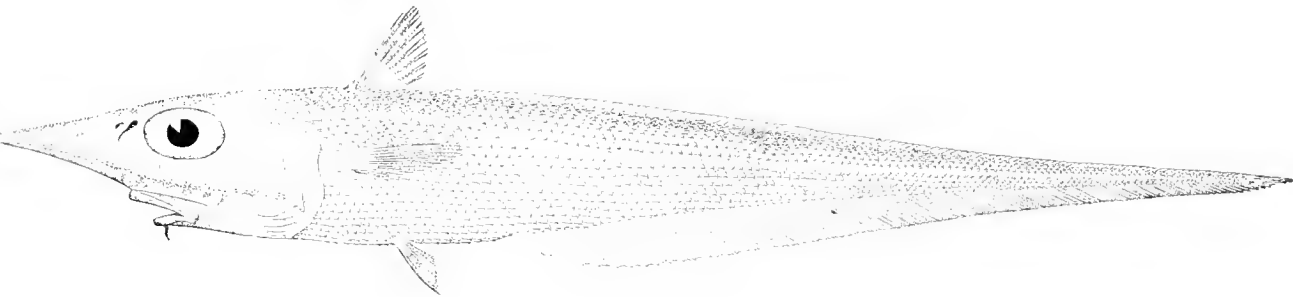
334



335

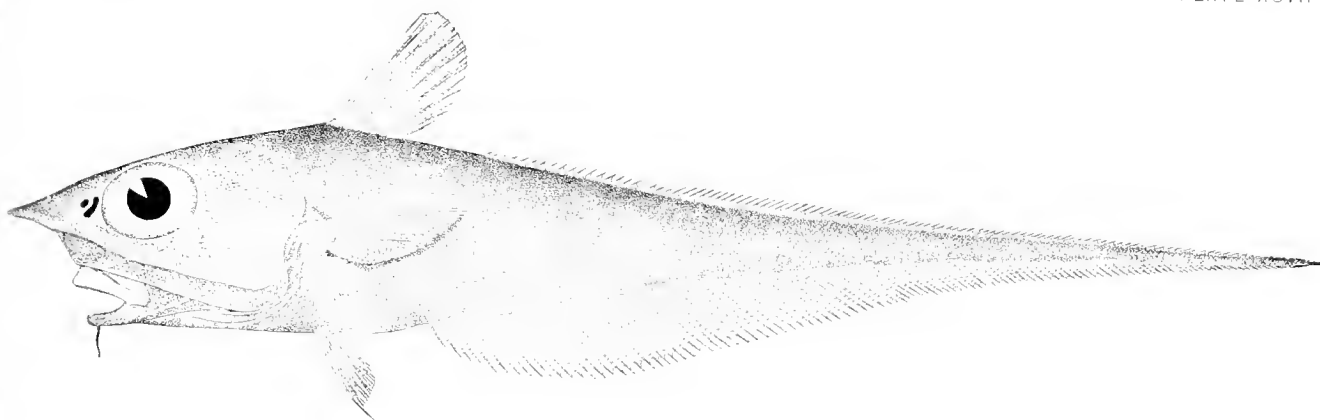


336



337

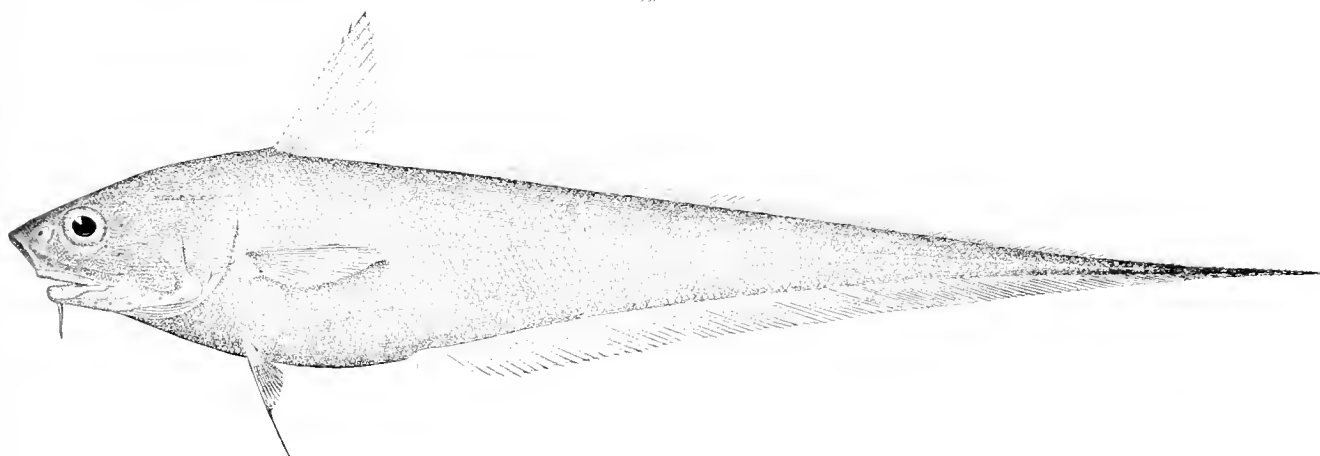
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| 334. <i>MACRURUS BERGLAX</i> . (p. 391.) | 335. <i>MACRURUS BAIRDII</i> . (p. 393.) |
| 336. <i>COELORHYNCHUS CARMINATUS</i> . (p. 398.) | 337. <i>COELORHYNCHUS OCCA</i> . (p. 400.) |



338



339



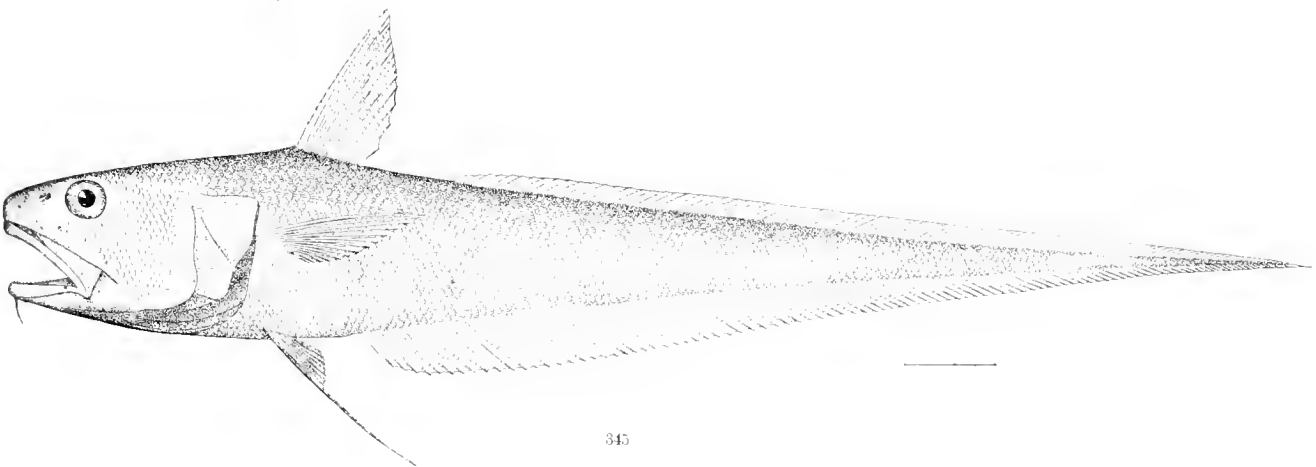
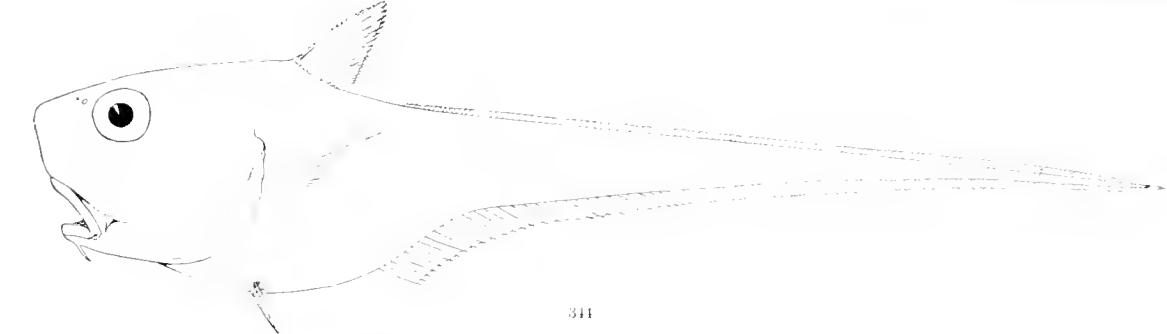
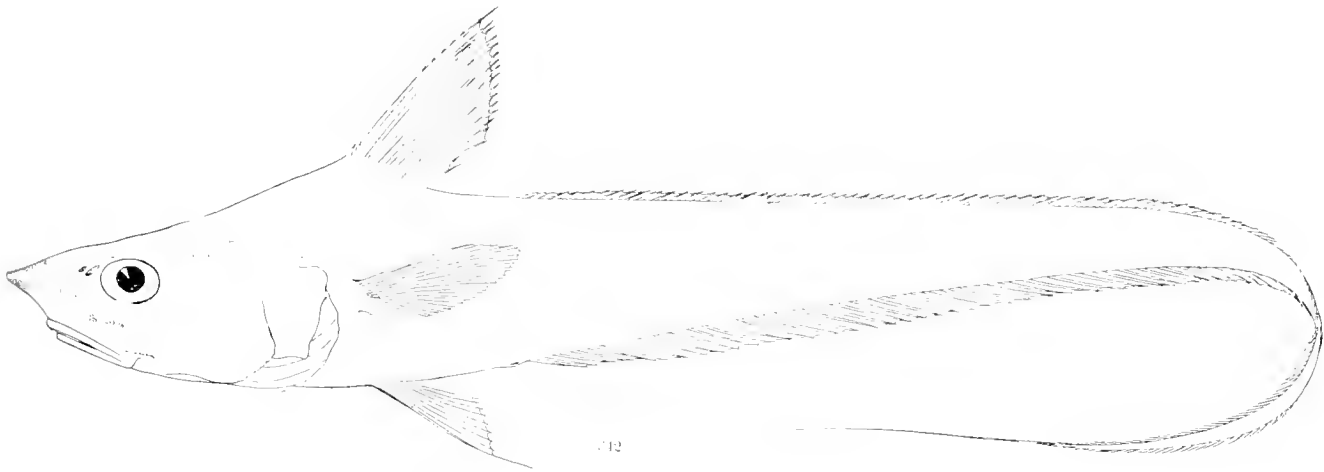
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341

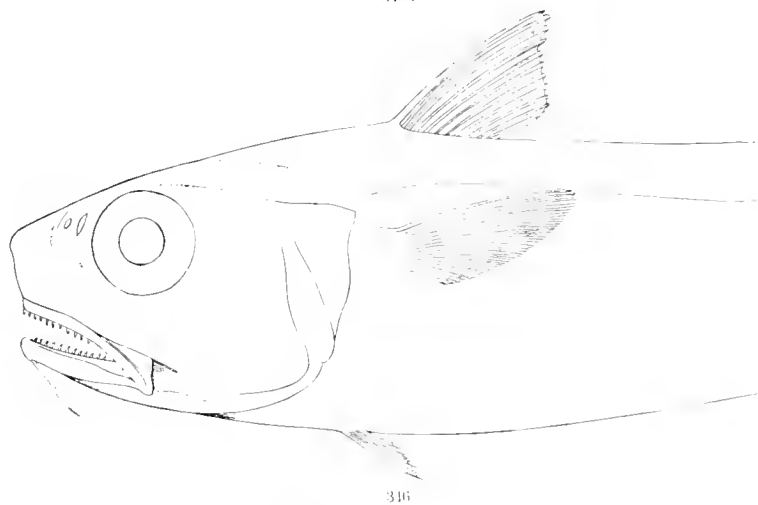
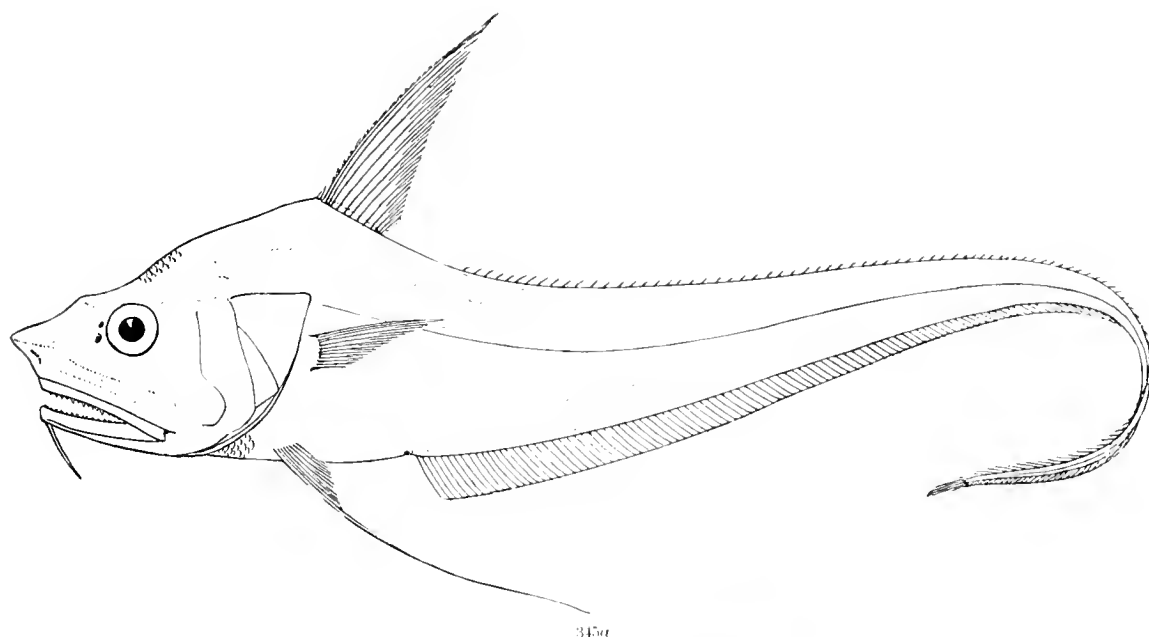
338. *CAELORHYNCHUS CARIBBEUS*. (p. 401.)
 340. *HYMENOCEPHALUS GOODEI*. (p. 407.)

339. *CORYPHÆNOIDES CARAPINUS*. (p. 404.)
 341. *HYMENOCEPHALUS CAVERNOSUS*. (p. 408.)



342. *LIONURUS FILICAUDA*. (p. 409.)
344. *CETONURUS GLOBICEPS*. (p. 411.)

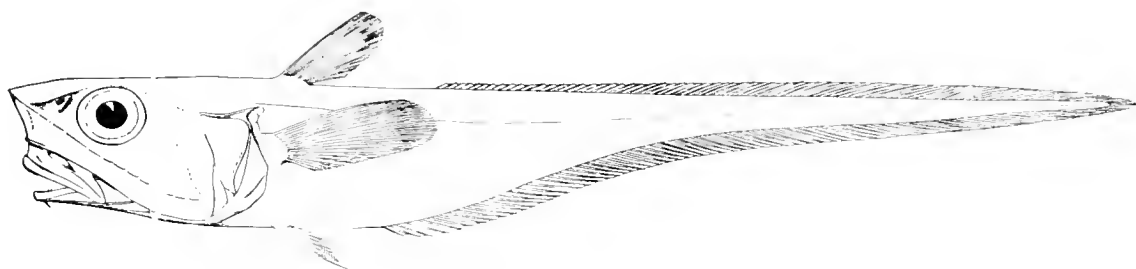
343. *TRACHIONURUS SULCATUS*. (p. 410.)
345. *CHALINURA SIMULA*. (p. 412.)



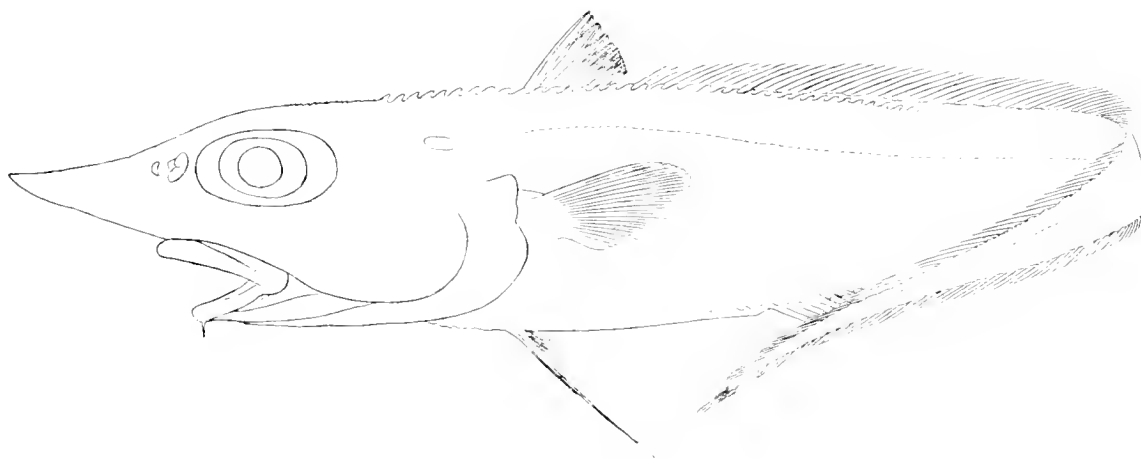
345a. *CHALINURA MEDITERRANEA*. (p. 525.)

347. *MOSELEYA LONGIFILIS*. (p. 417.)

346. *NEMATONURUS GIGAS*. (p. 416.)



348



349

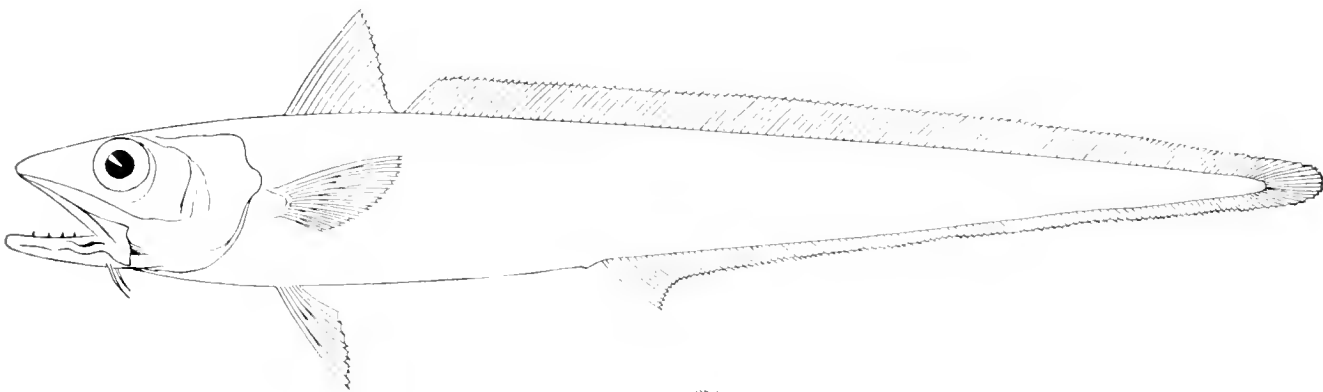


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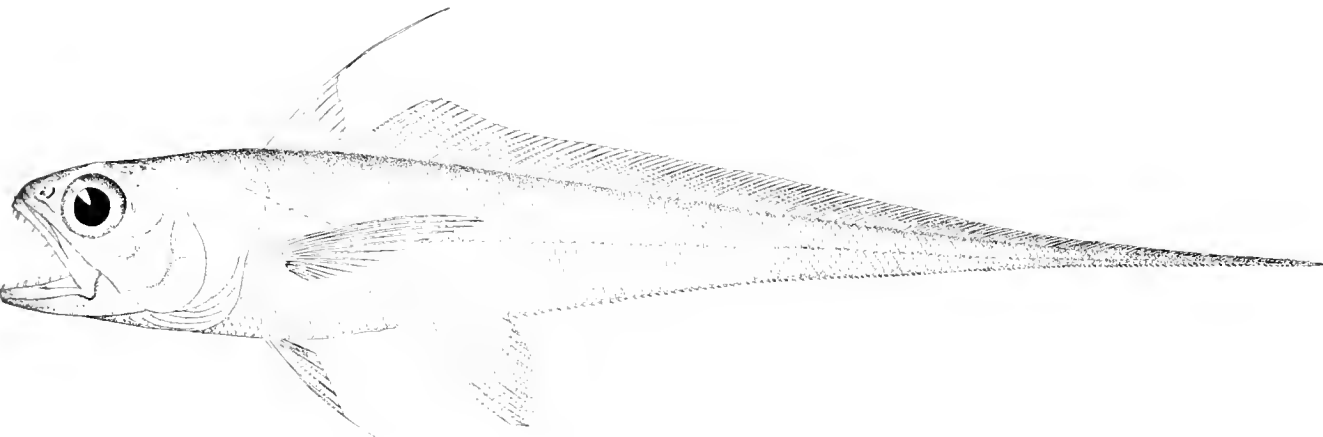
348. *ABYSSICOLA MACROCHIRA*. (p. 417.)

349. *TRACHYRHYNCHUS SCABRUS*. (p. 417.)

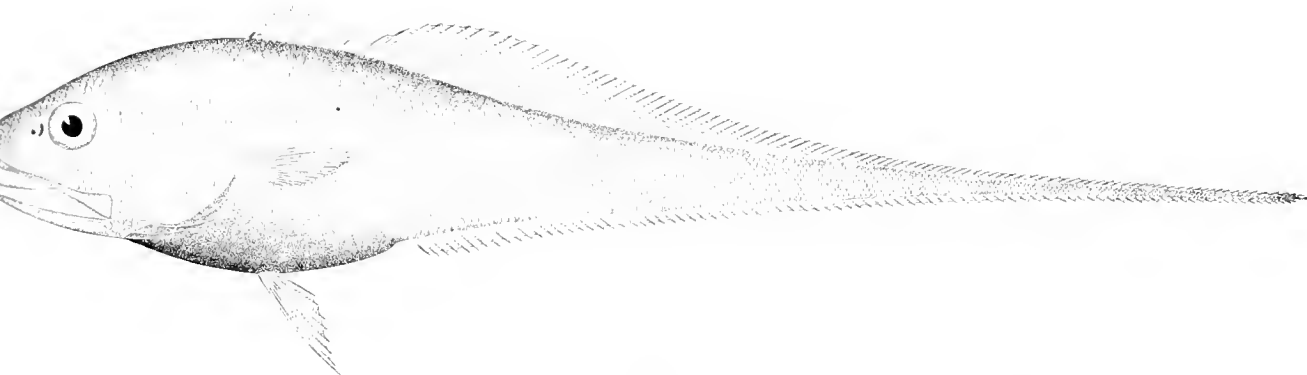
349a. *MACRURUS LONGIFILIS*. (p. 417.)



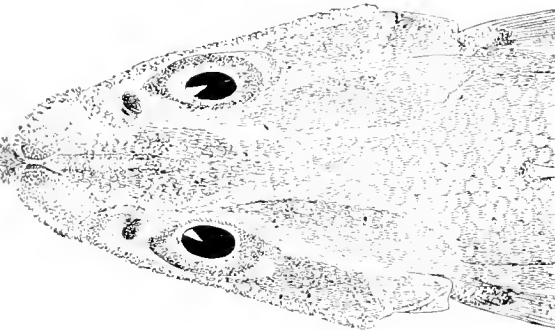
350



351



352



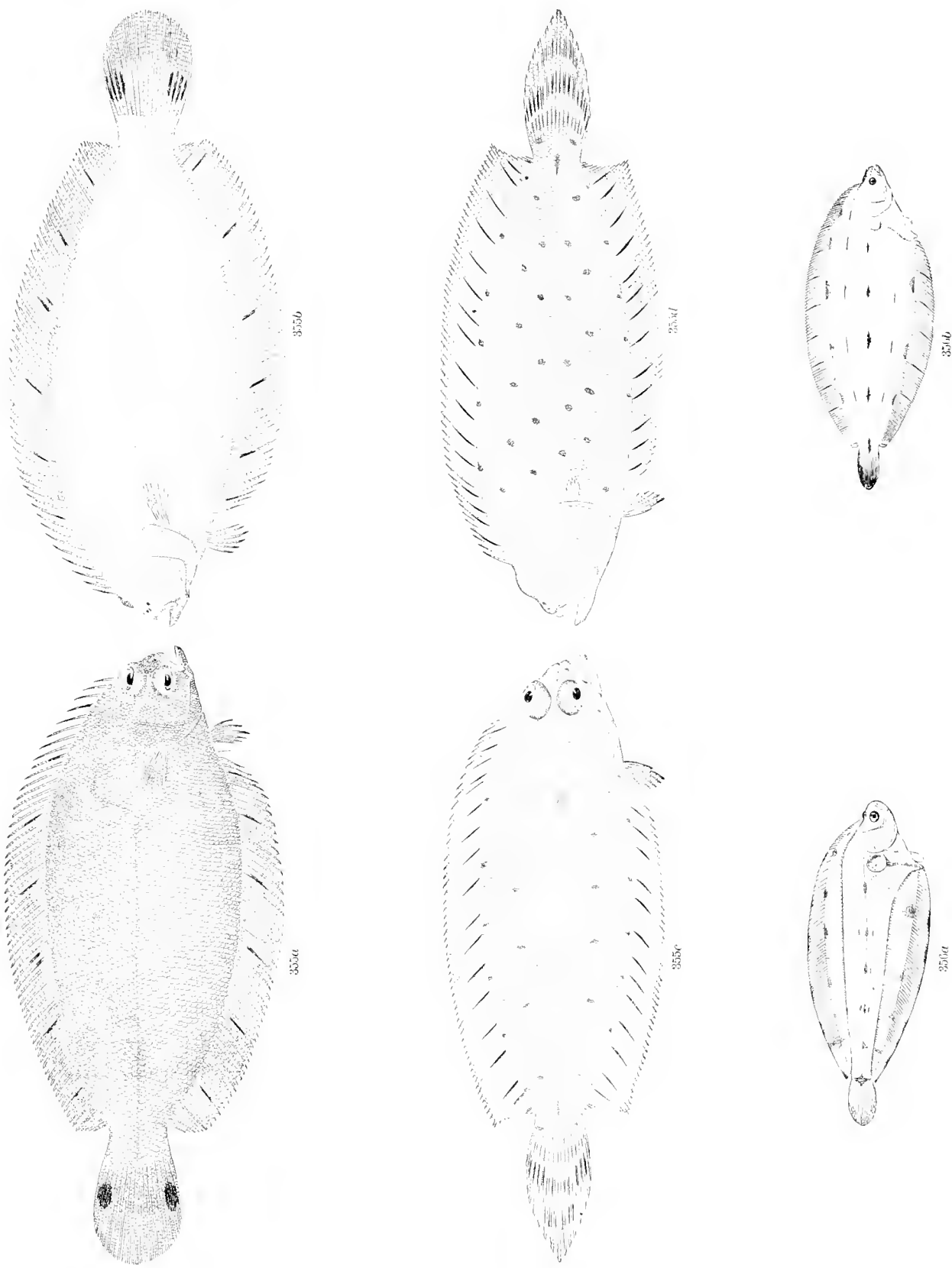
353



354

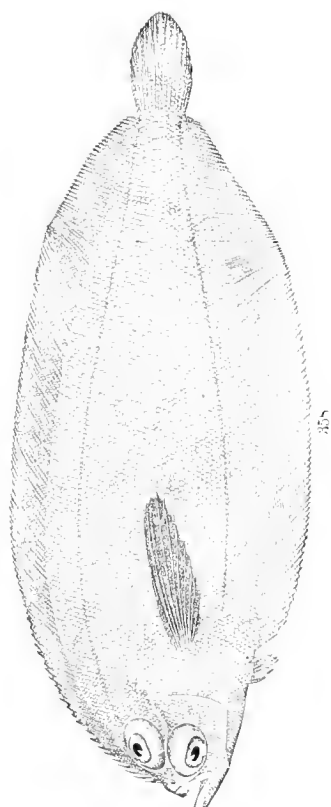
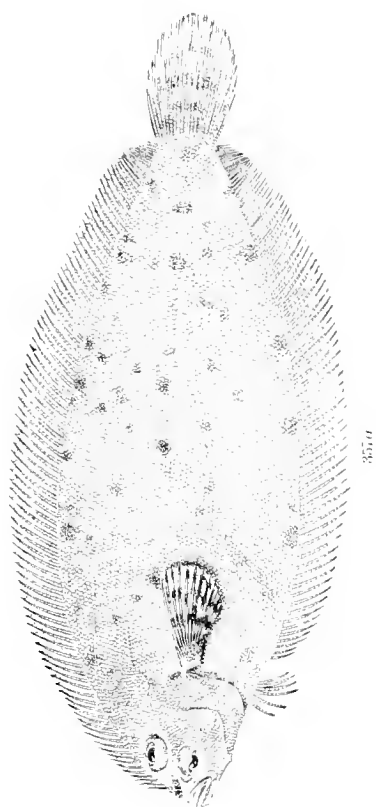
350. *MACRURONUS NOVAE-ZELANDIAE*. (p. 418.)
352. *BATHYGADUS FAVOSUS*. (p. 420.)

351. *STEINDACHNERIA ARGENTEA*. (p. 419.)
353, 354. *CELOERYNCHUS CARMINATUS*. (p. 398.)



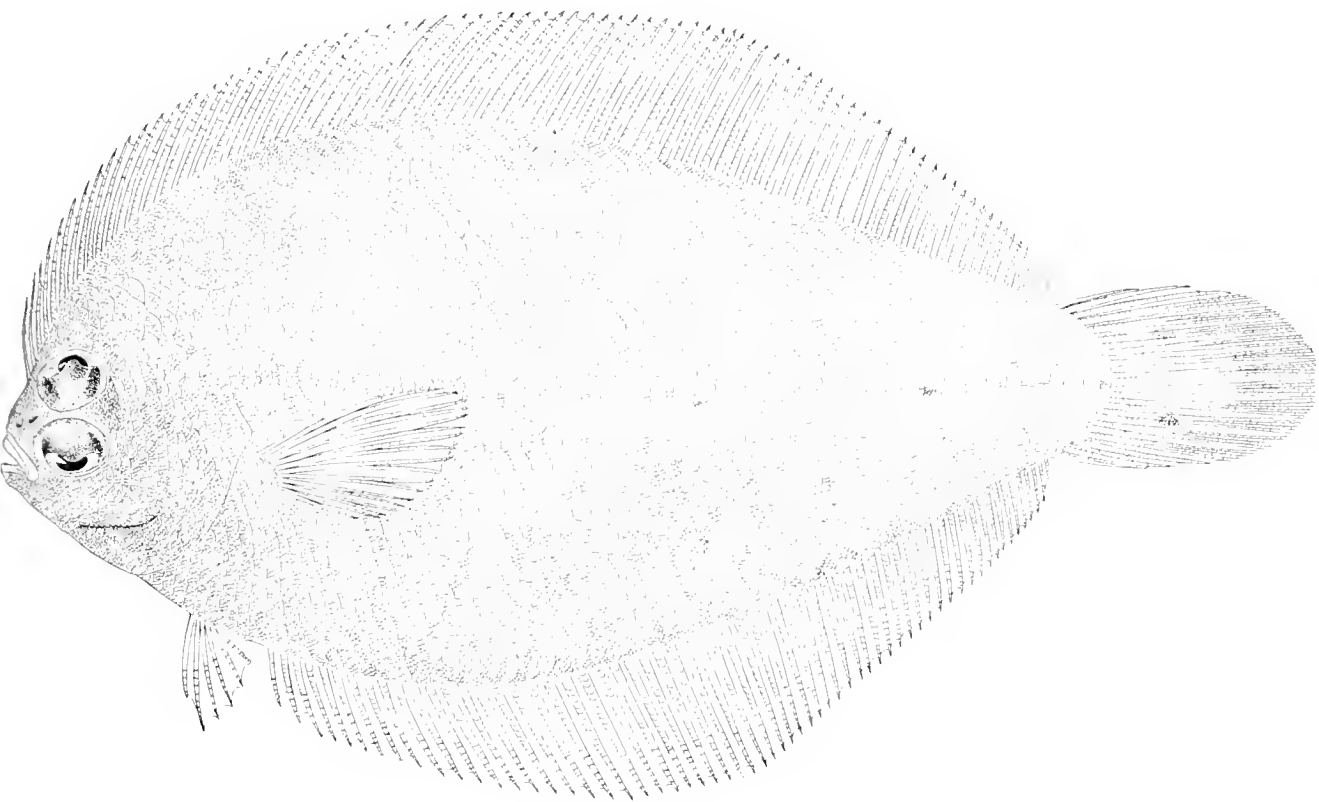
355a-d. *LIMANDA BEANII*. (p. 428.)

356a, b. *GLYPTOCEPHALUS CYNOGLOSSUS*. (p. 430.)

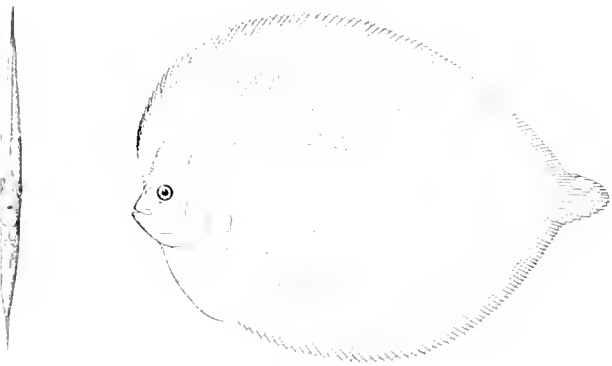


357a, b. *MONOLEPIS SESSILICAUDA*. (p. 452.)

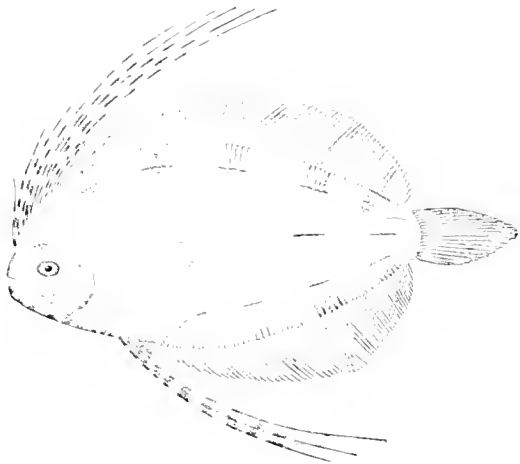
358, 359. *MONOLEPIS ATRIMANA*. (p. 455.)



360



361



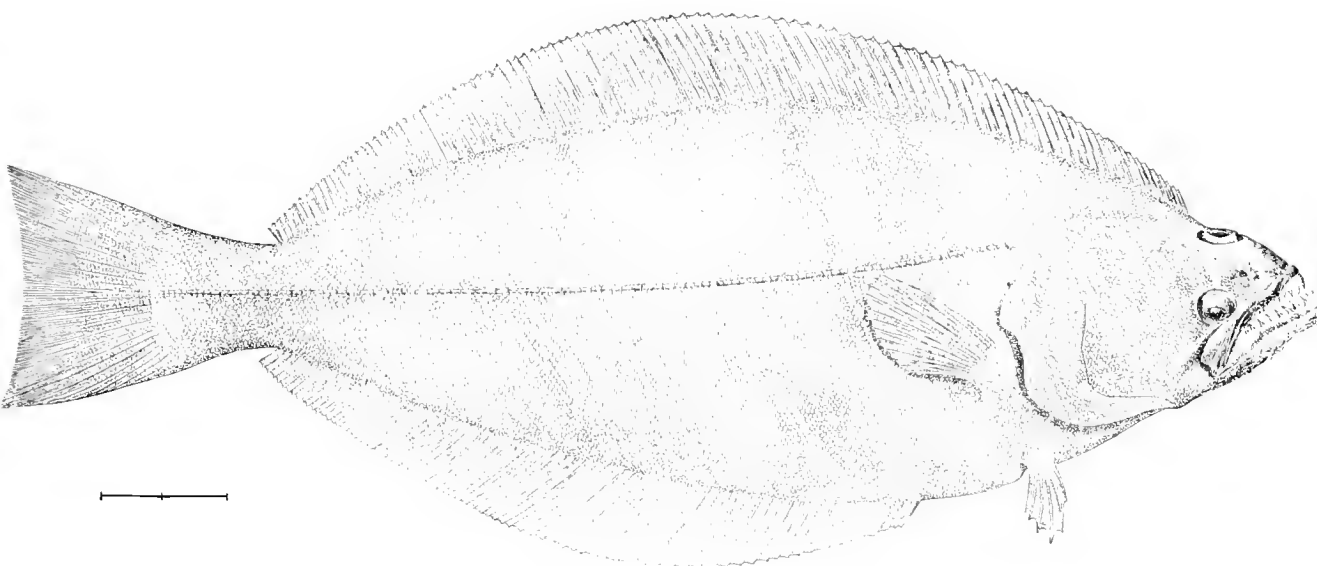
362

360, 361. *ETROPUS RIMOSUS*. (p. 450.)

362. *NOTOSEMA DILECTA*. (p. 437.)



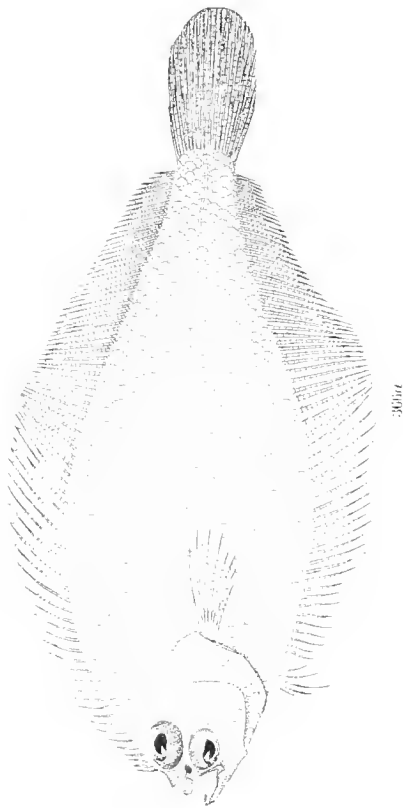
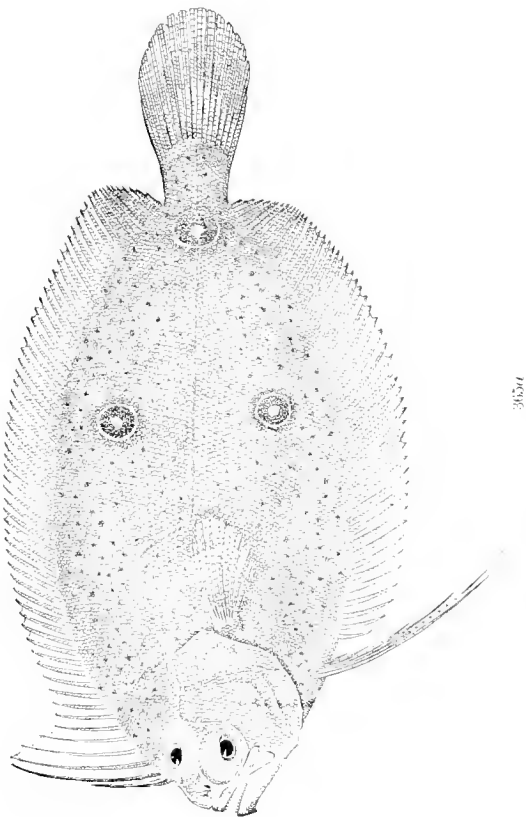
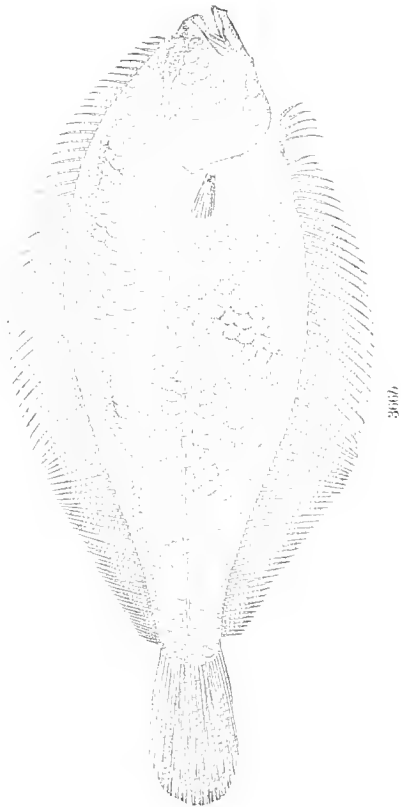
363



364

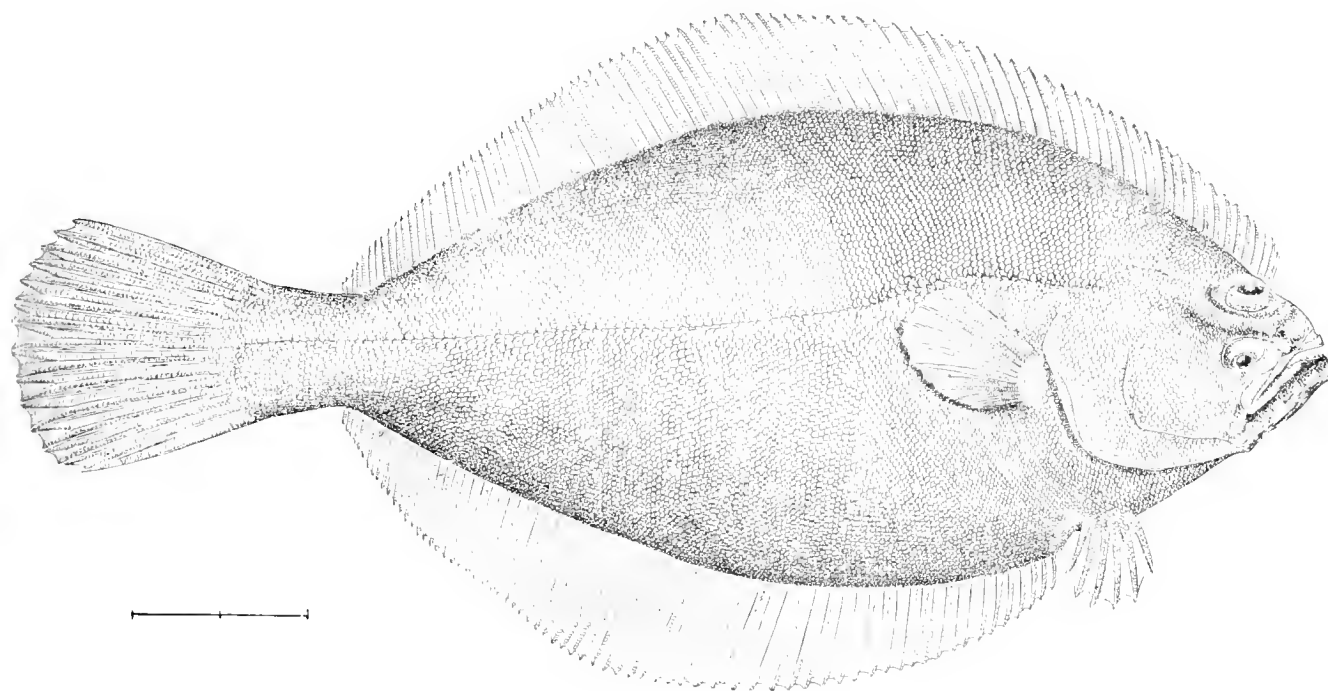
363. HIPPOGLOSSUS VULGARIS. (p. 434.)

364. PLATYSOMICHTHYS HIPPOGLOSSOIDES. (p. 435.)

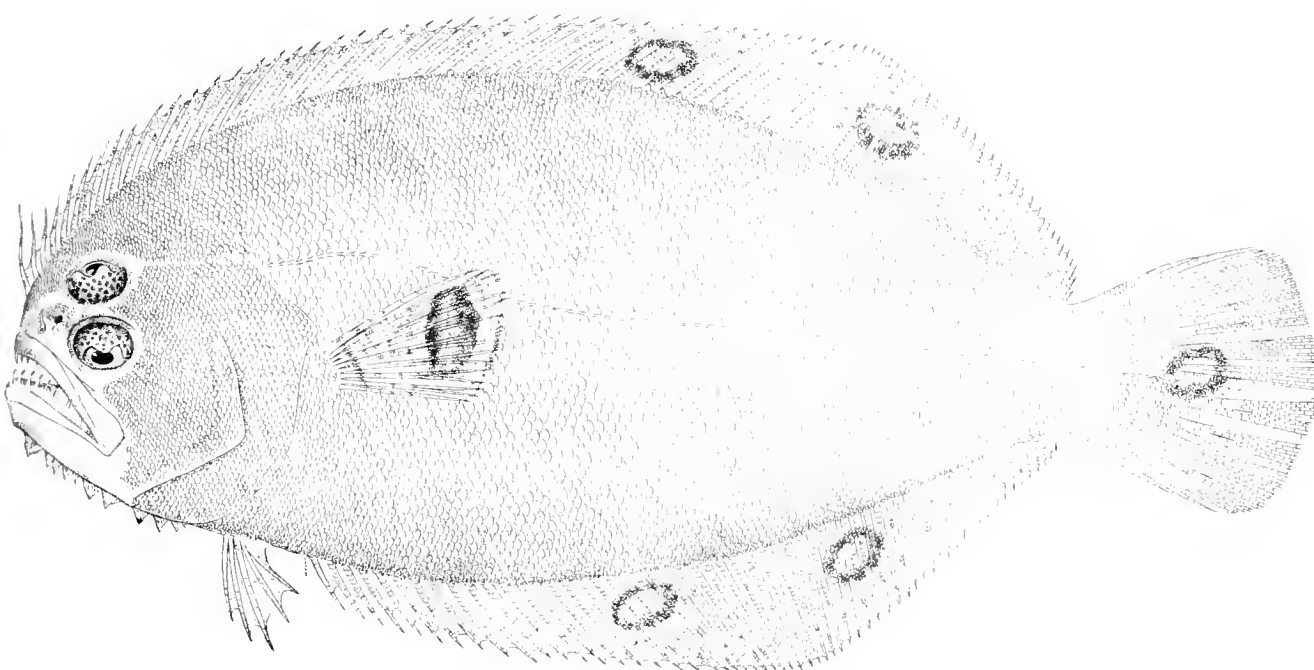


365a, b. NOTOSEMA DILECTA. (p. 437.)

366a, b. LITHARCHICHTHYS ARCTIFRONS. (p. 442.)



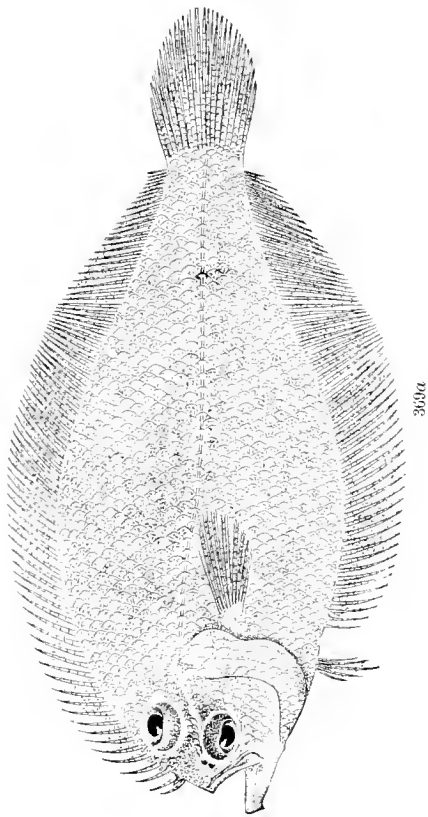
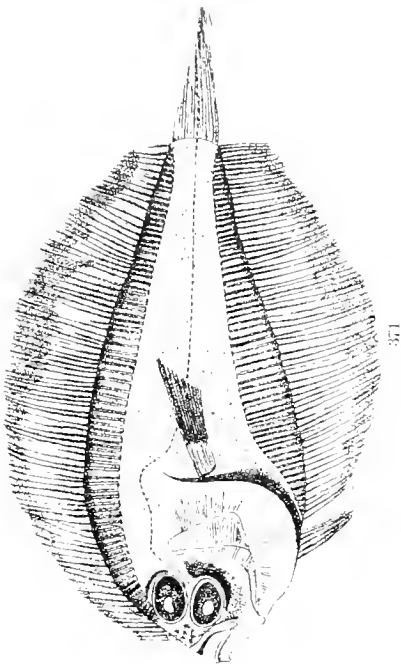
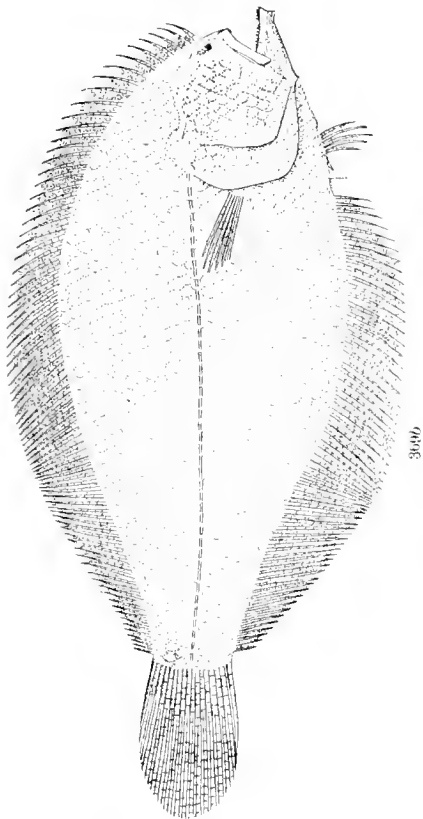
367



368

367. HIPPOGLOSSOIDES PLATESSOIDES. (p. 438.)

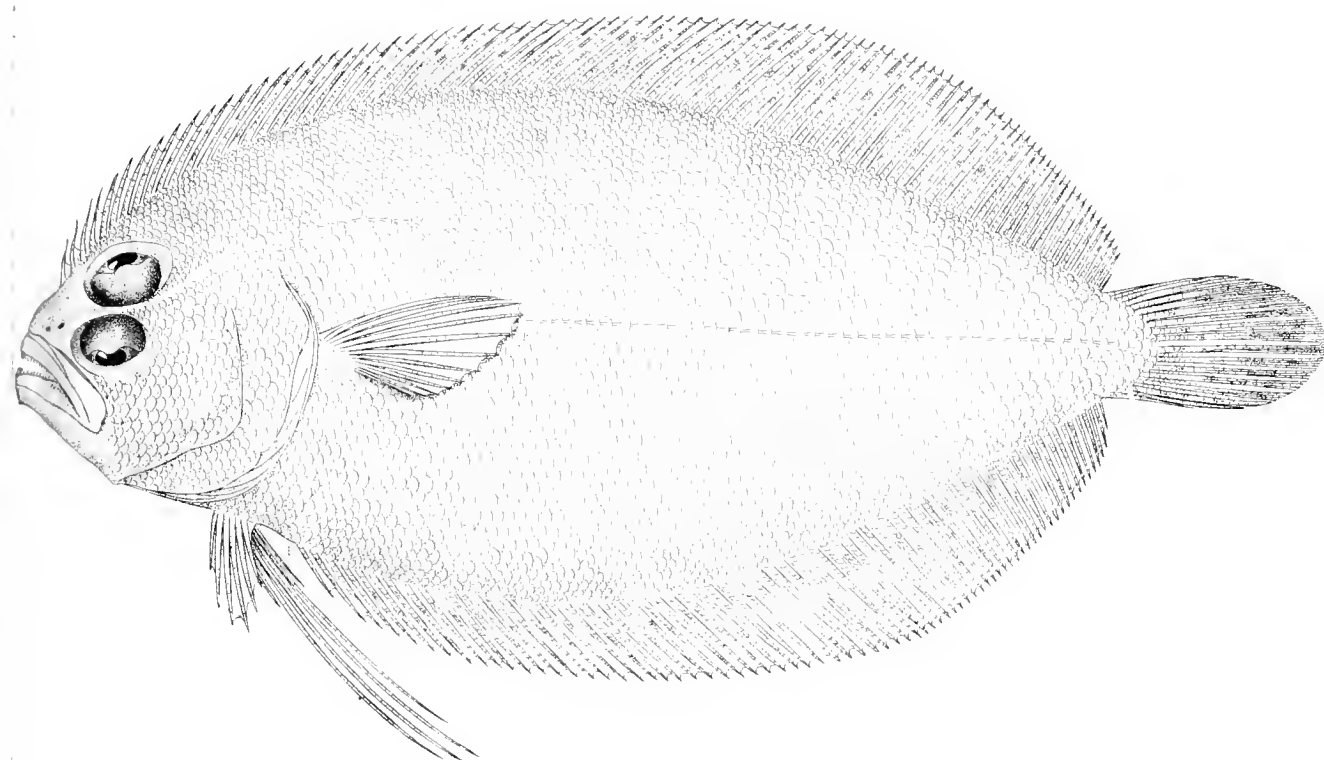
368. CYCLOPSETTA FIMBRIATA. (p. 451.)



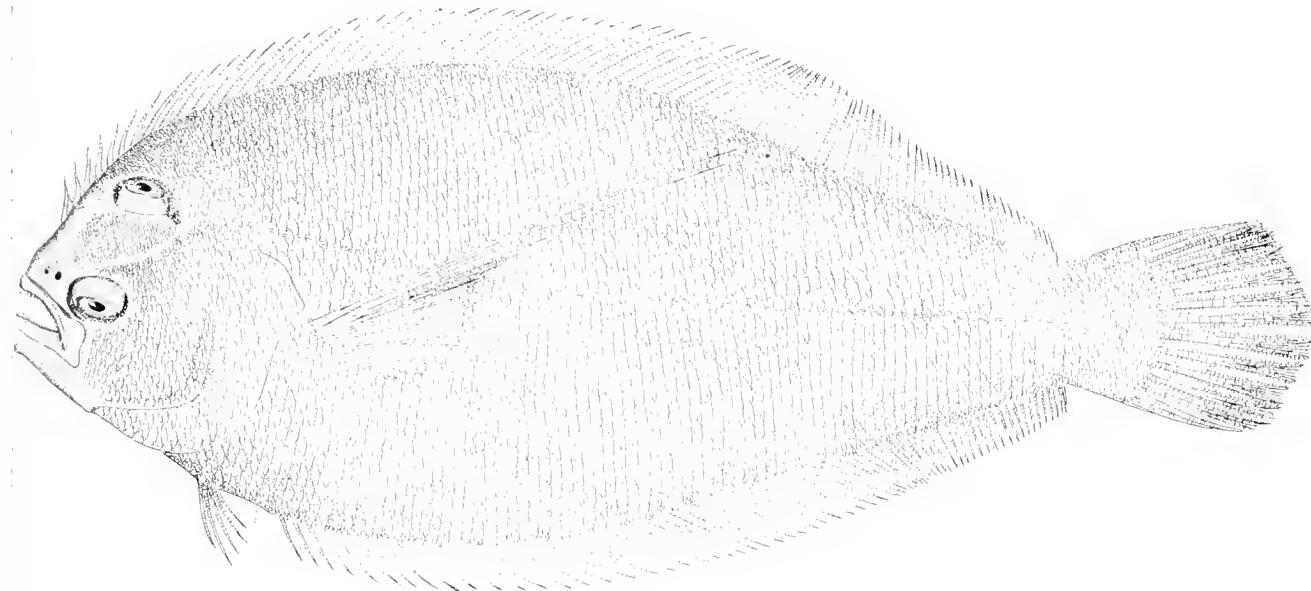
369a, b. *CITHARICHTHYS UNICORNUS*. (p. 444.)

370. *CITHARICHTHYS SPILOPTERUS*. (p. 447.)

371. *SCIAENECTES MACROPHthalmus*. (p. 440.)



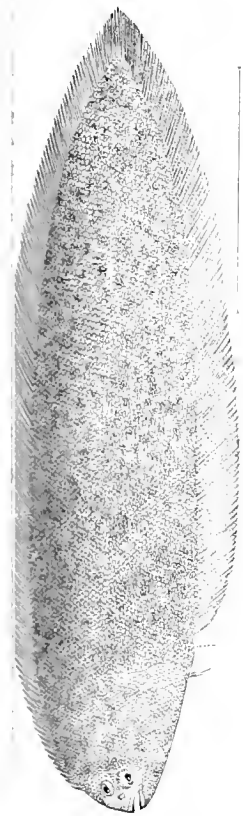
372



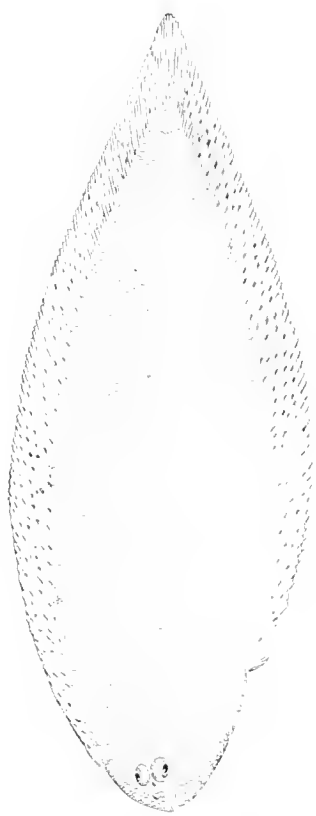
373

372. *TRICHOSETTA VENTRALIS*. (p. 440.)

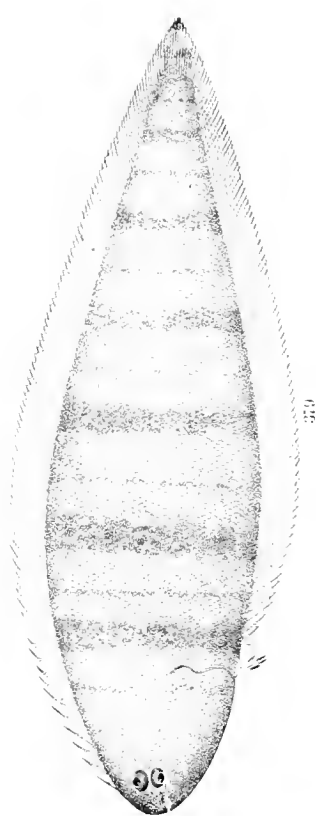
373. *CITHARICHTHYS PETULUS*. (p. 448.)



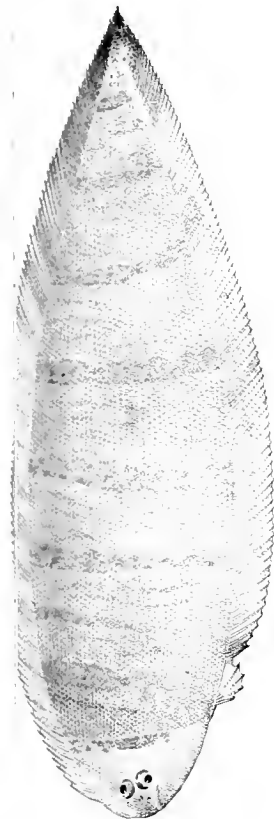
375



377



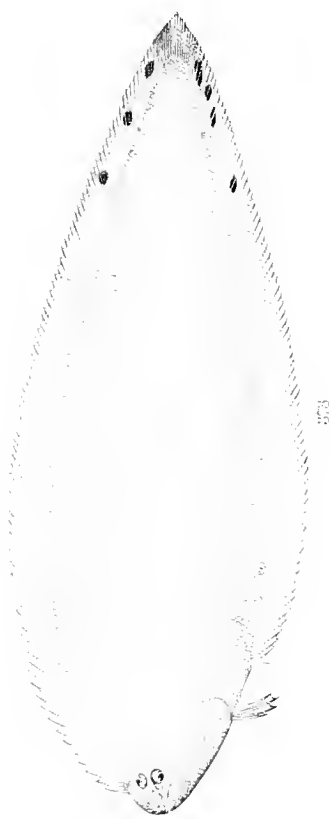
379



374



376



378

374. APHORISTIA FASCIATA. (p. 458.)
377. APHORISTIA PIGRA. (p. 460.)

375. APHORISTIA NEBULOSA. (p. 458.)
378. APHORISTIA DIOMEDIANA. (p. 460.)

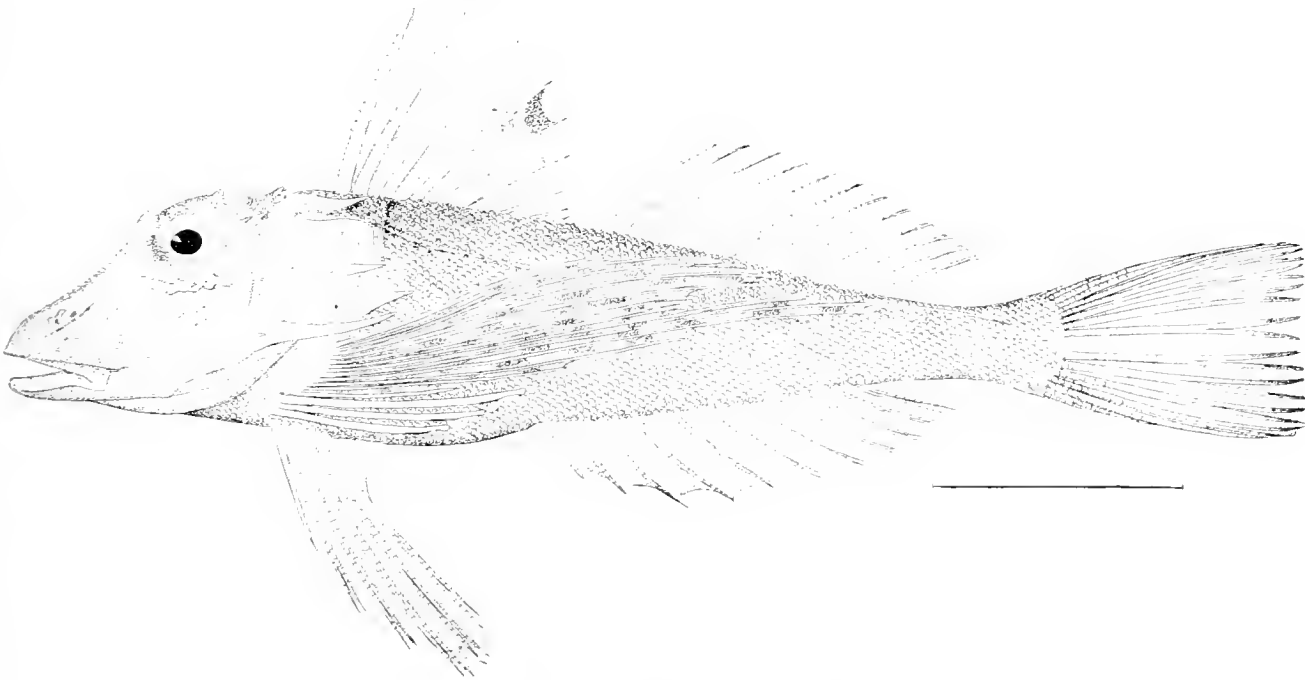
376. APHORISTIA MARGINATA. (p. 459.)
379. APHORISTIA PUSILLA. (p. 461.)



380



381

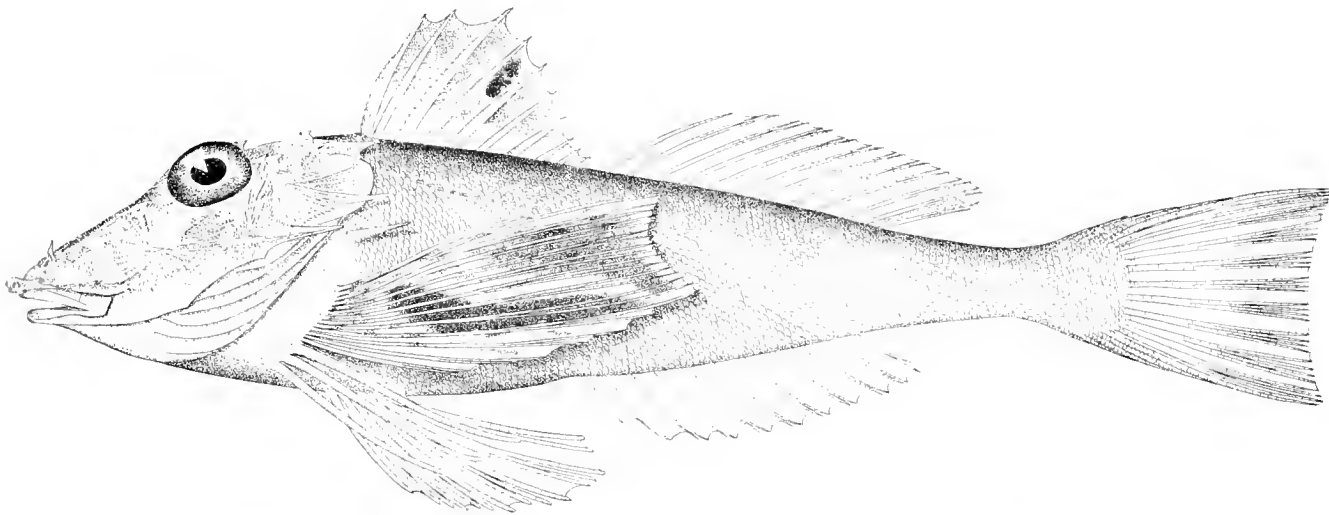


382

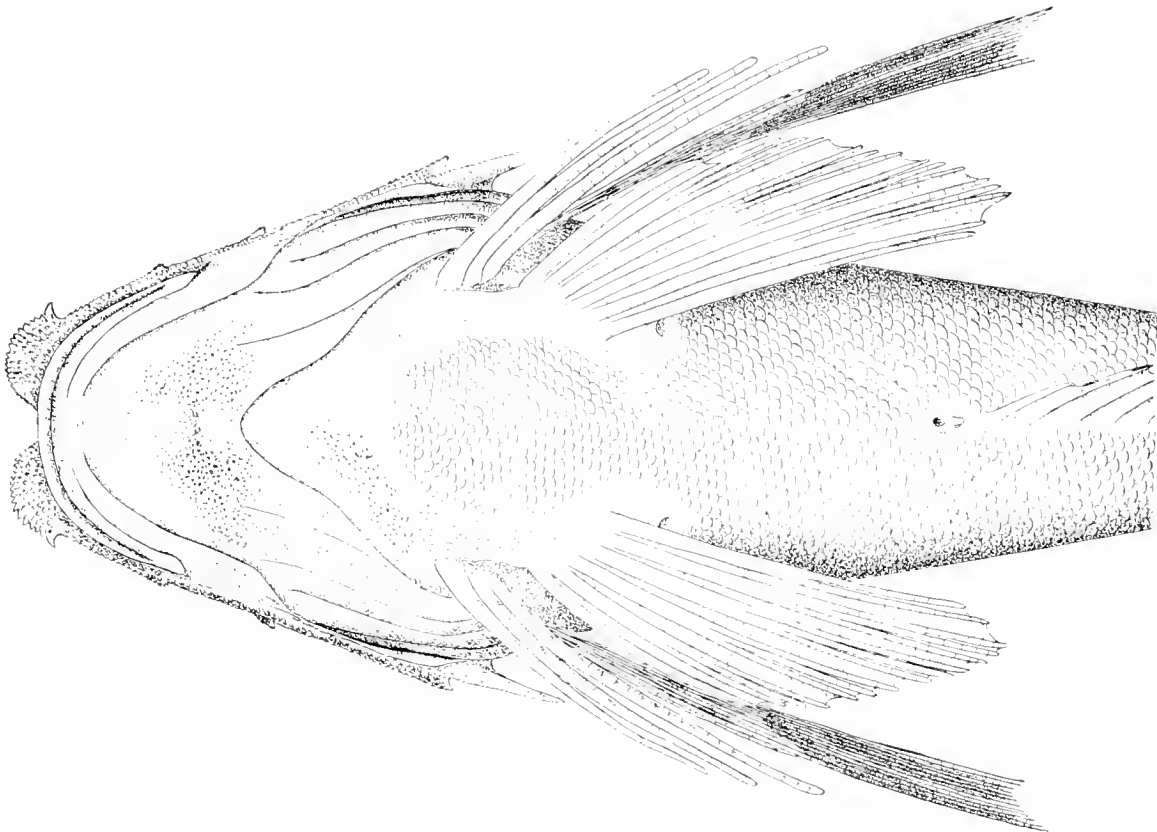
380. PRIONOTUS MILITARIS. (p. 464.)

381. PRIONOTUS EGRETTE. (p. 465.)

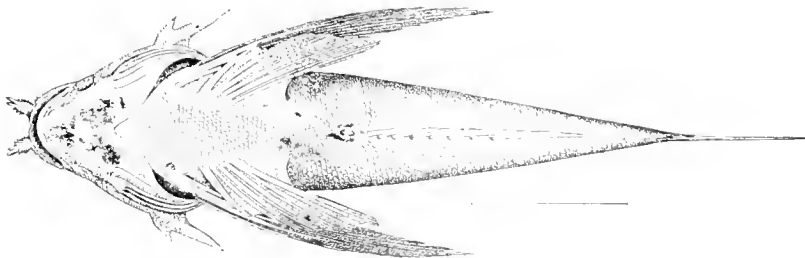
382. PRIONOTUS ALATUS. (p. 467.)



383



383b



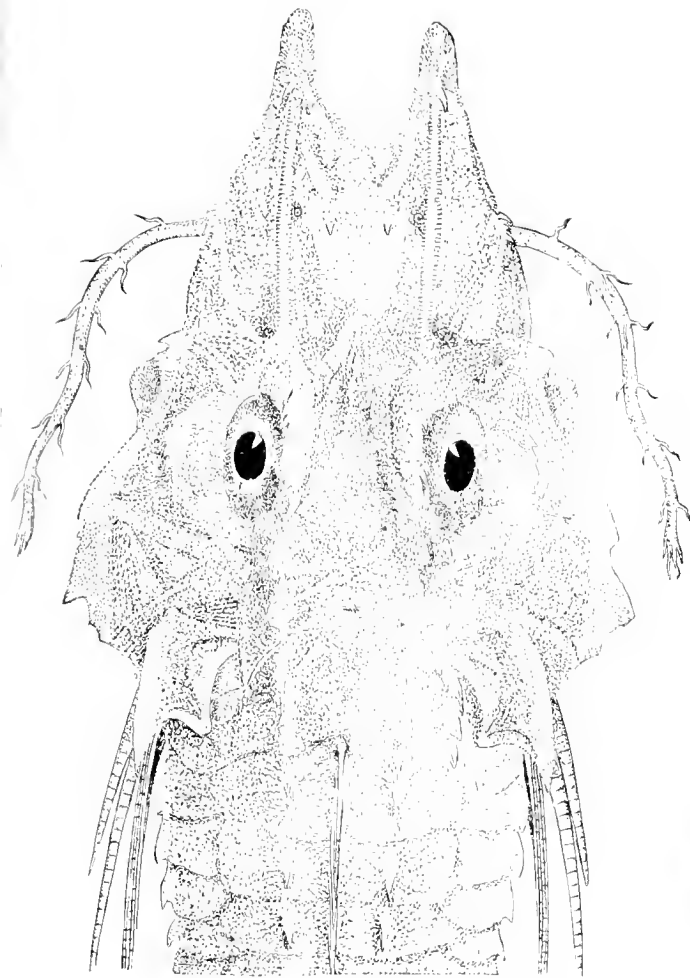
384

383, 383b. PRIONOTUS TRINITATIS. (p. 468.)

384. PRIONOTUS MILITARIS. (p. 464.)



385

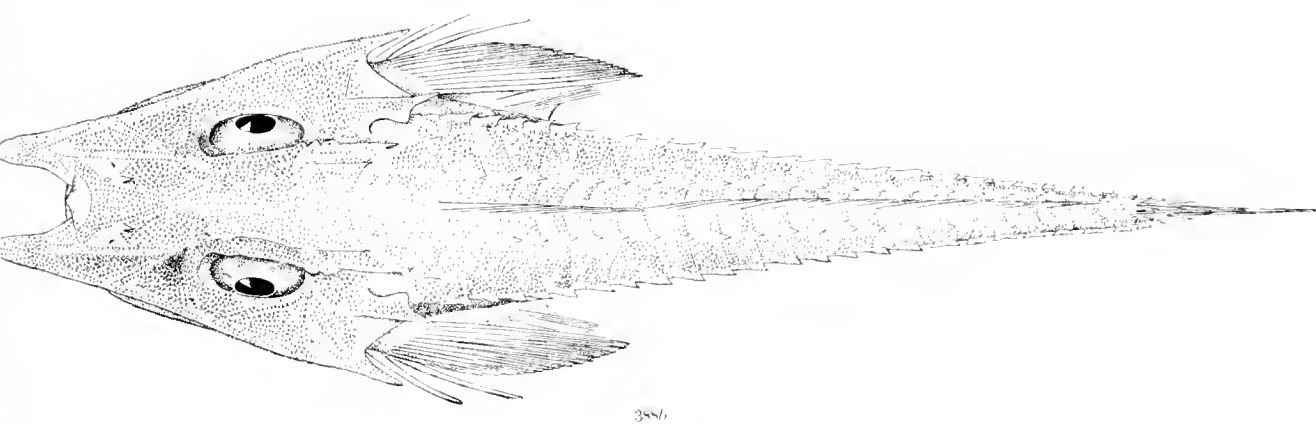
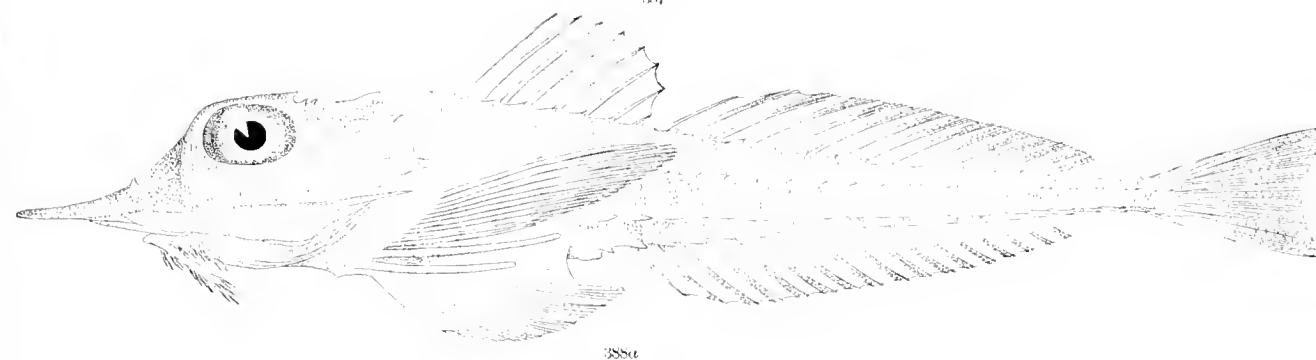


385a



385b

385, 385a, b. PERISTEDION MINIATUM. (p. 170.)



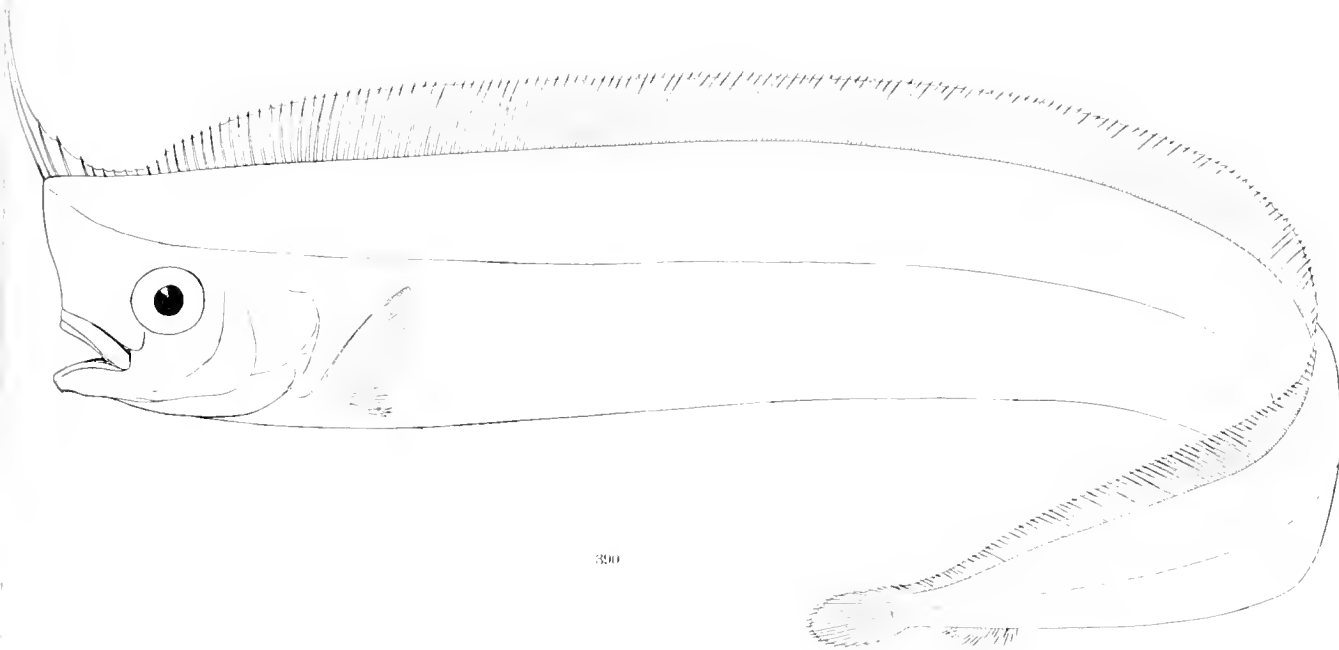
386. PERISTEDION LONGISPATHA. (p. 472.)

387. PERISTEDION GRACILE. (p. 473.)

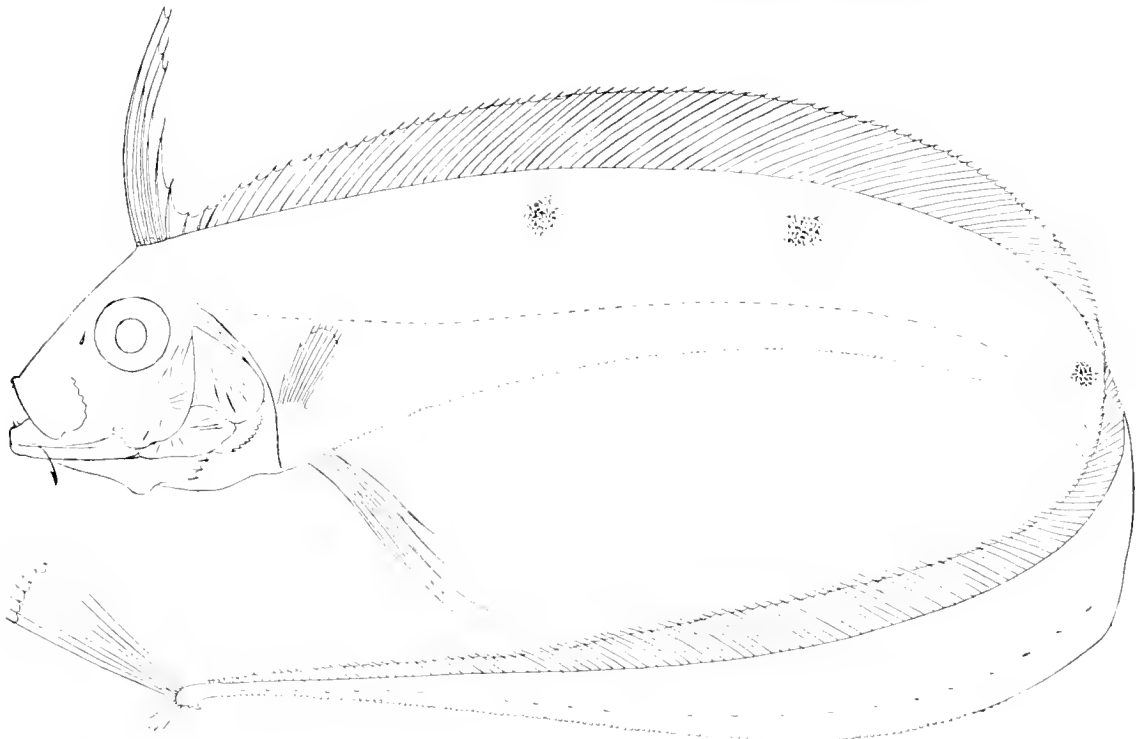
388a, b. PERISTEDION PLATYCEPHALUM. (p. 474.)



389

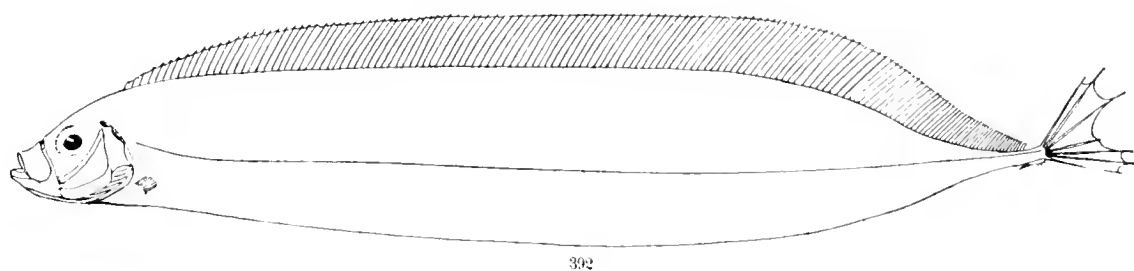


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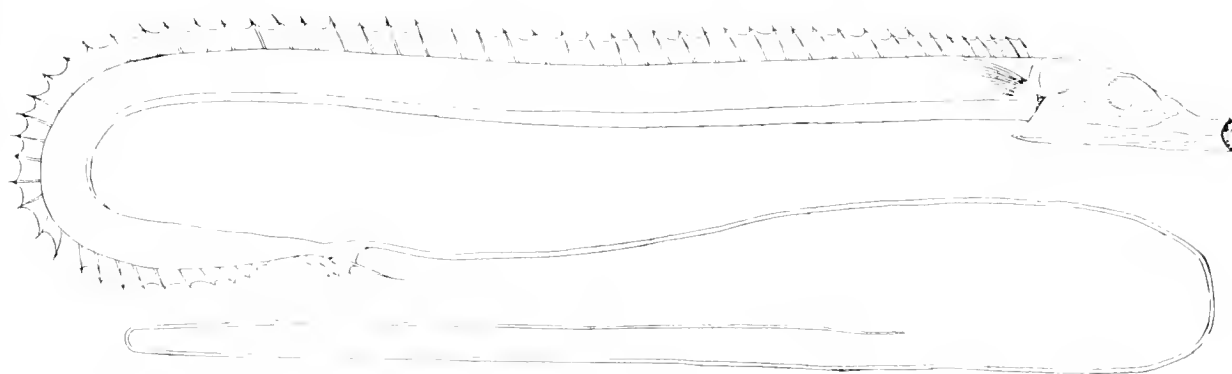


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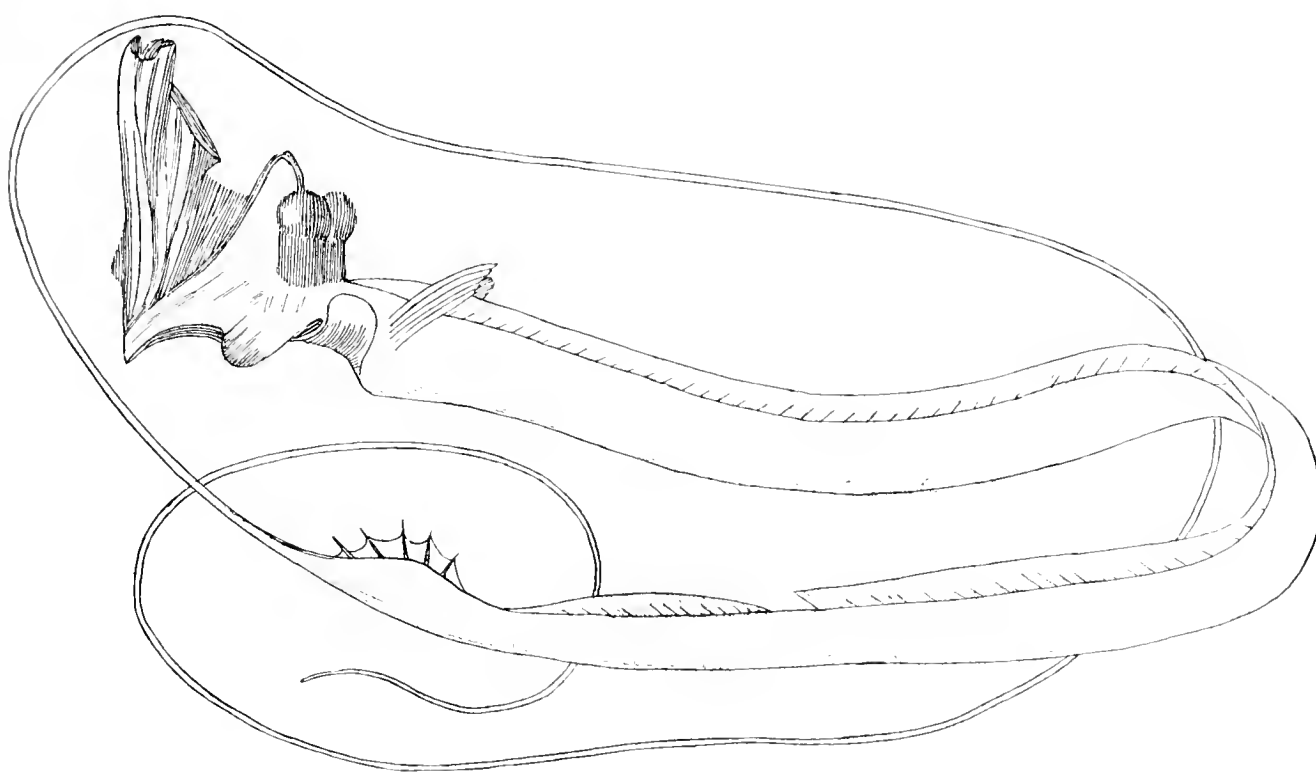
389, *LOPHOTES CEPEDIANUS* (p. 349.) 390, *LOPHOTES CAPELLEI* (p. 351.)
391, *TRACHYPTERUS IRIS*. (p. 477.)



392



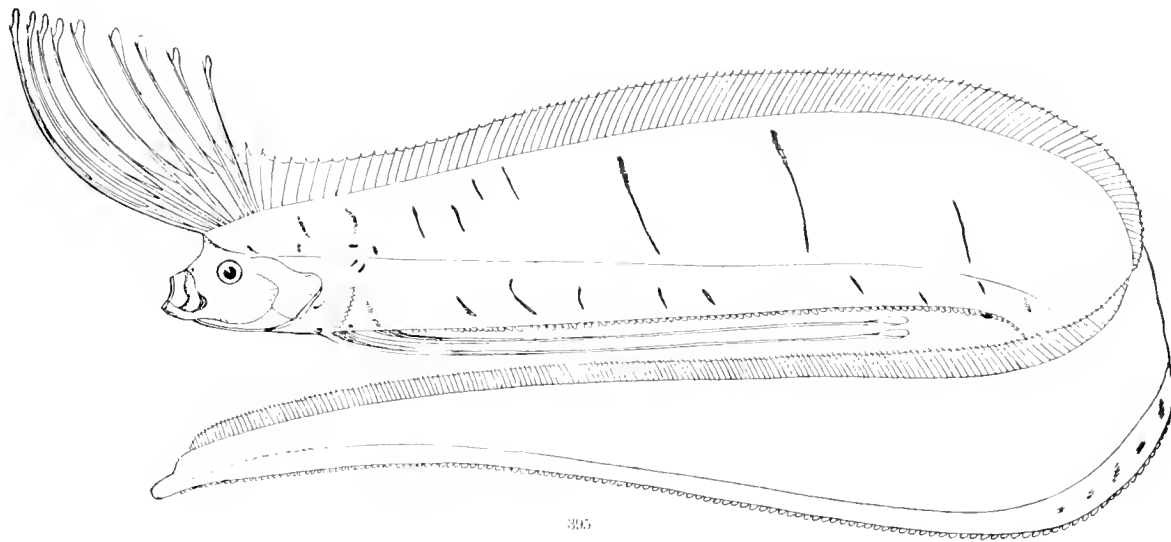
393



394

392. TRACHYPTERUS ARCTICUS. (p. 479.)

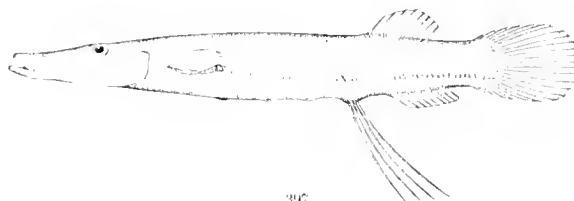
393, 394. STYLEPHORUS CHORDATUS. (p. 482.)



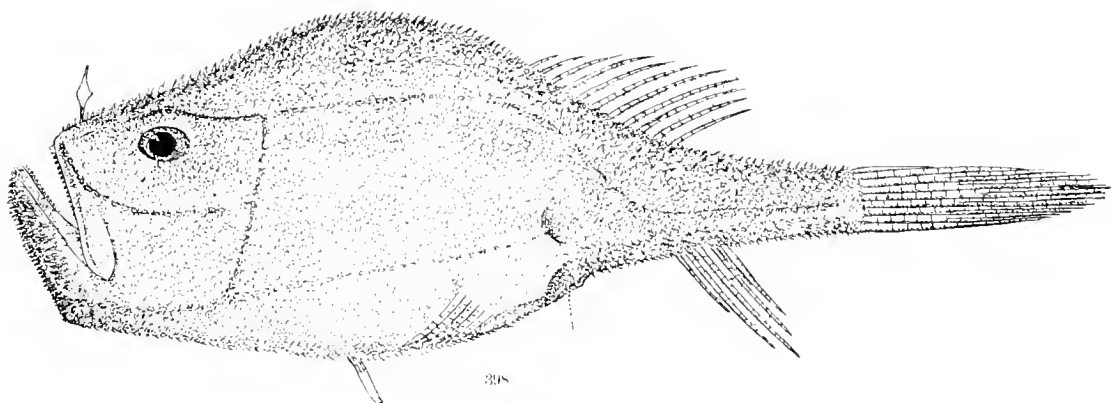
395



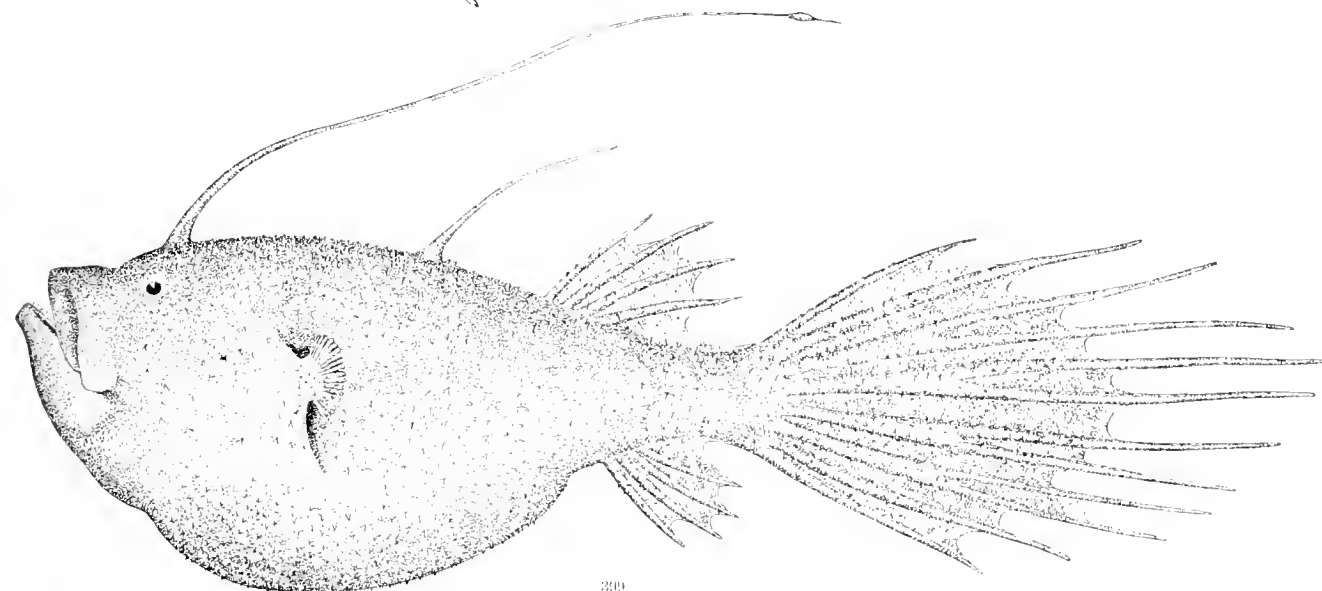
396



397

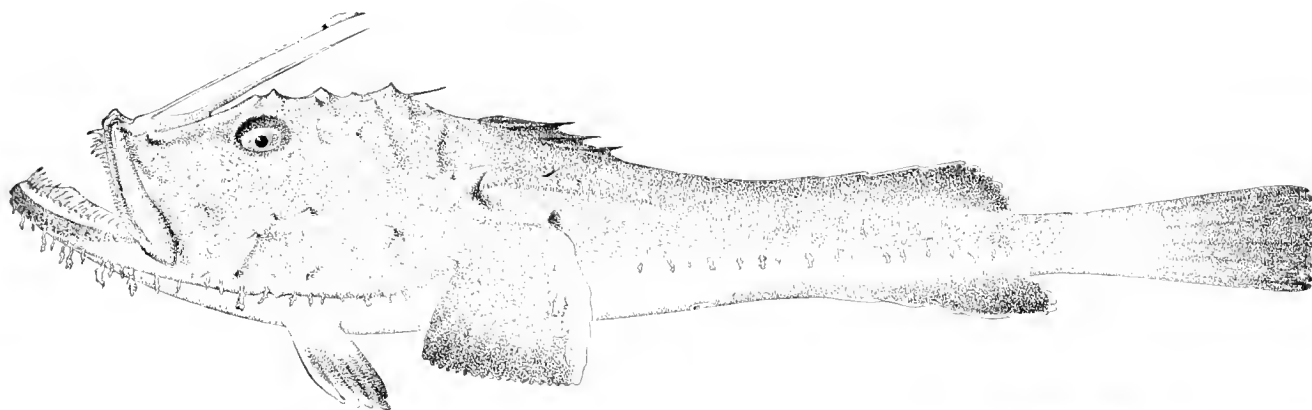


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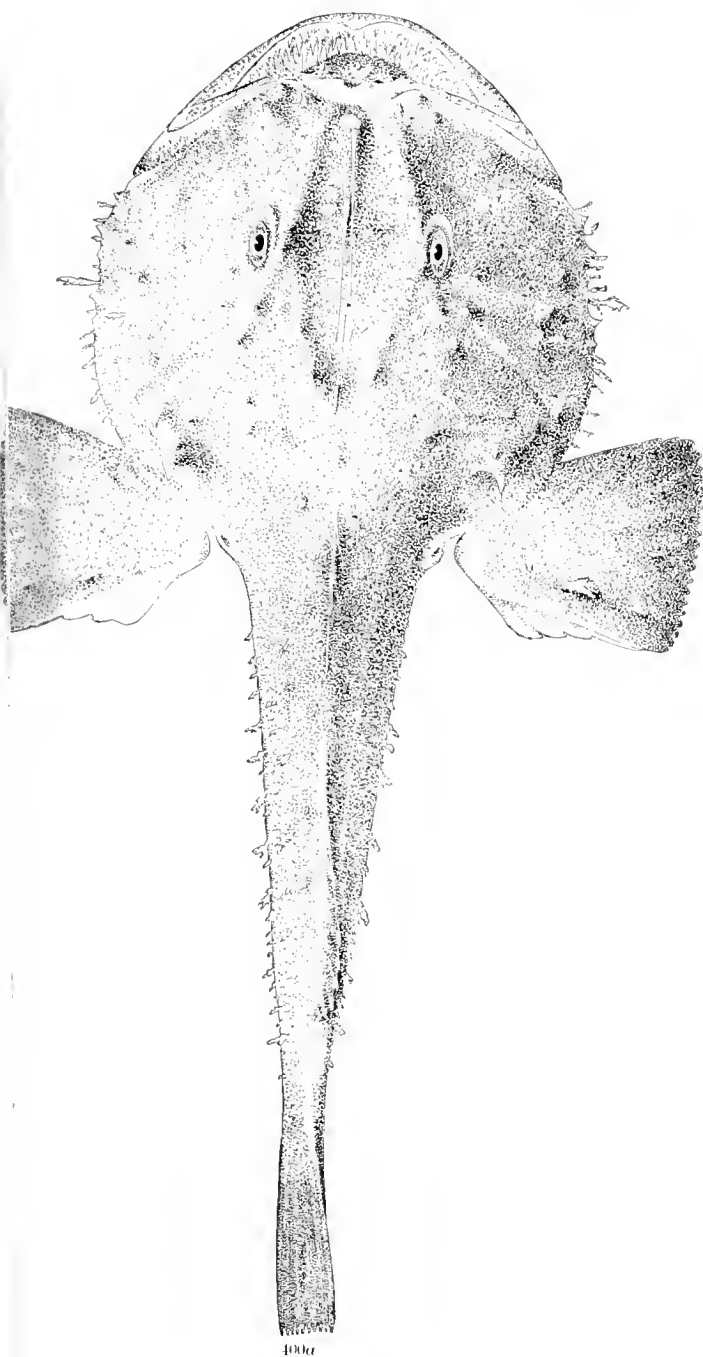


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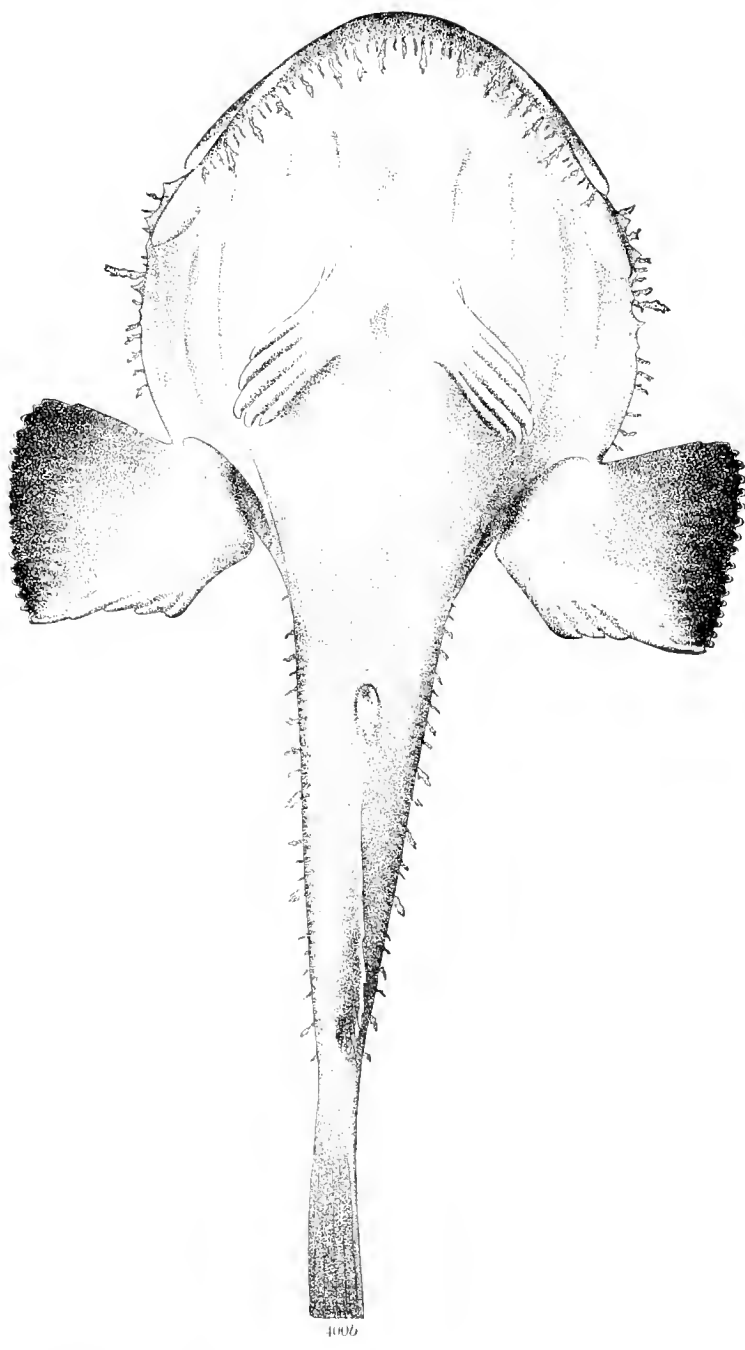
395. *REGALECUS GLESENE*. (p. 480.) 396. *MACRORHAMPHOSUS SCOLOPAX*. (p. 483.) 397. *AULOSTOMA LONGIPES*. (p. 484.)
 398. *CHAUNAX PICTUS*. (p. 487.) 399. *CERATIAS HOLDBOLLI*. (p. 489.)



400

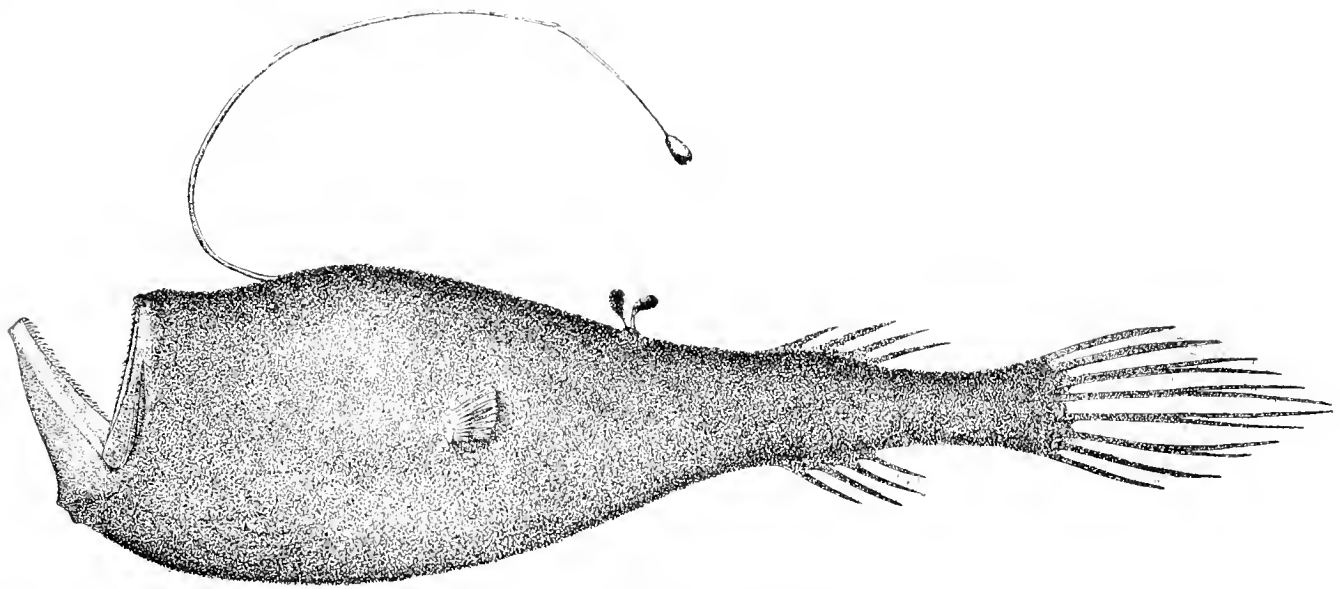


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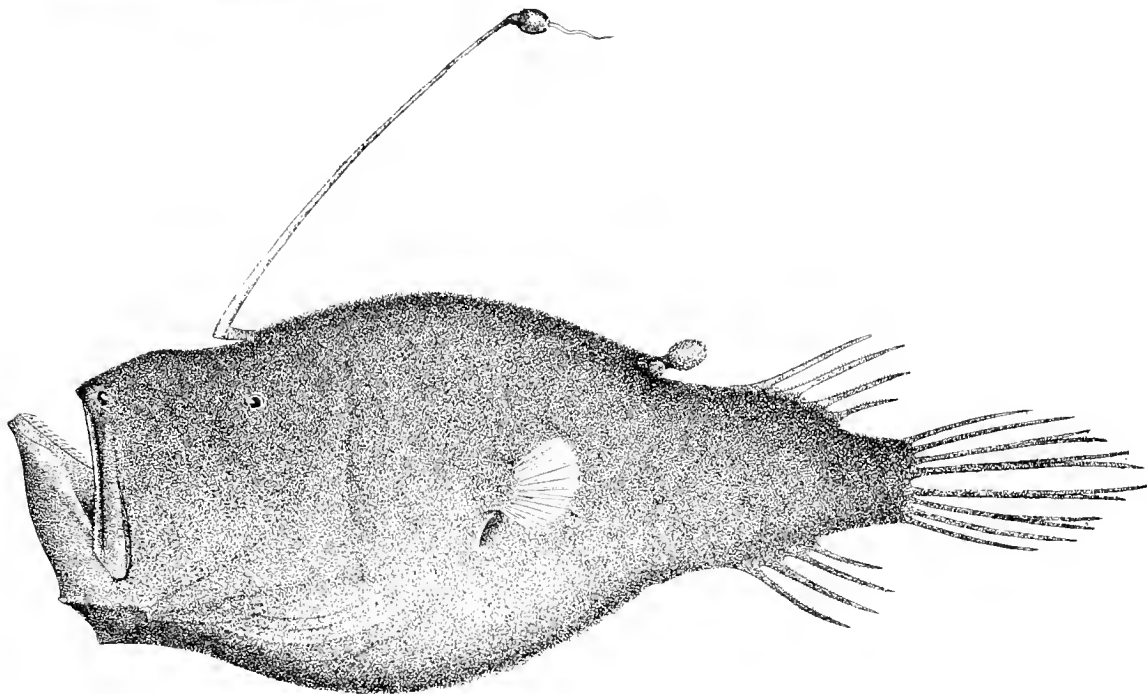


400b

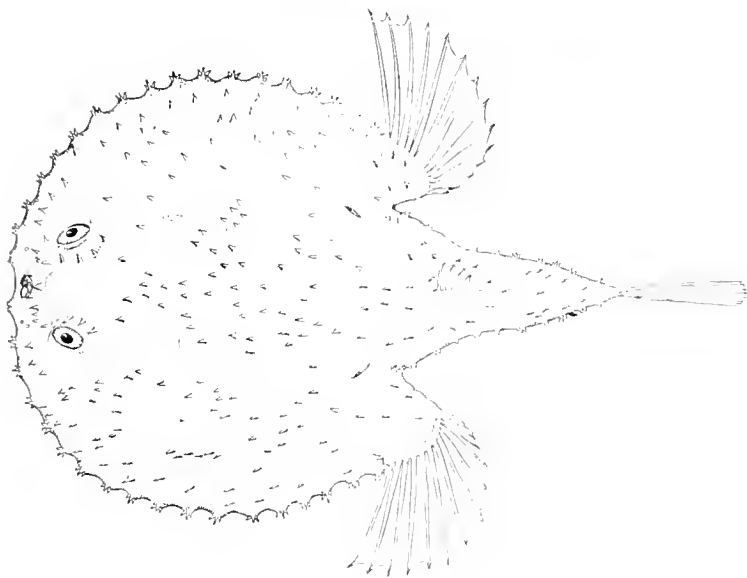
400, 400a, b, *LOPHIUS PISCATORIUS*. (p. 485.)



401



402



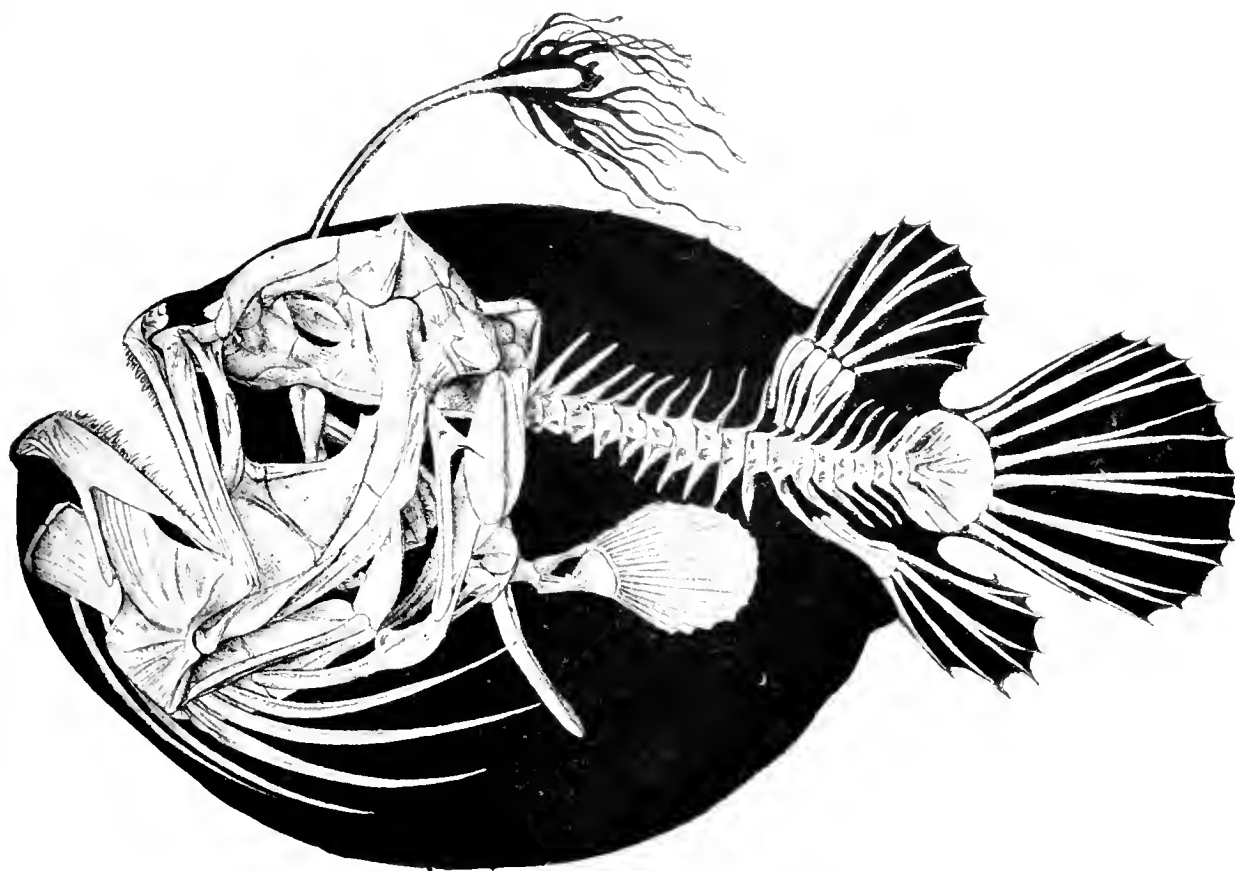
403



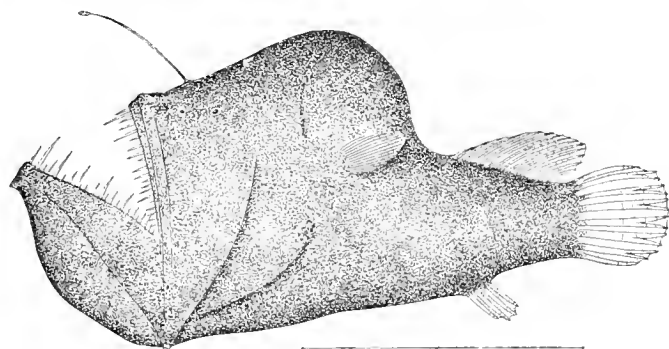
404

401. *MANCALIAS SHUFELDTII*. (p. 490.)
403. *HALIEUTAEA STELLATA*. (p. 499.)

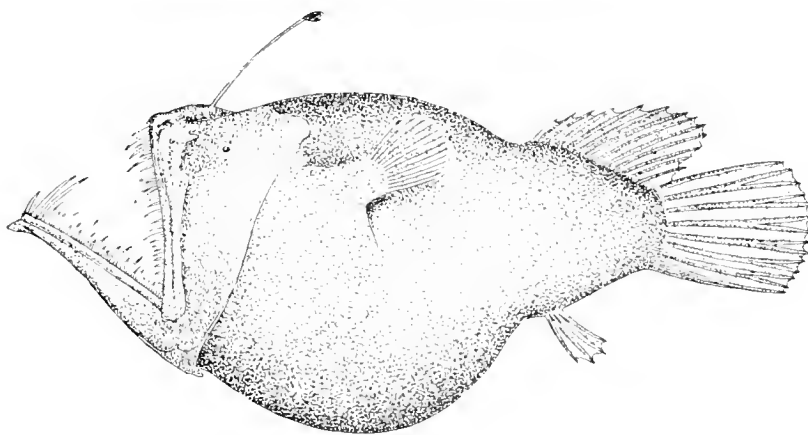
402. *CRYPTOPSARAS COUESII*. (p. 491.)
404. *PARONEIRODES GLOMEROSUS*. (p. 493.)



405



406

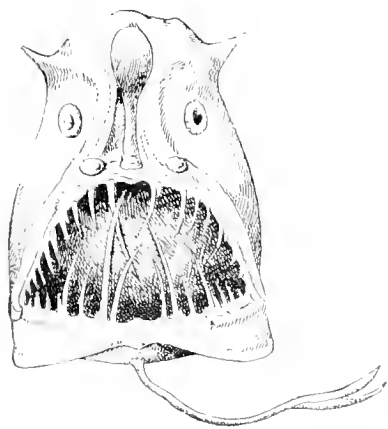


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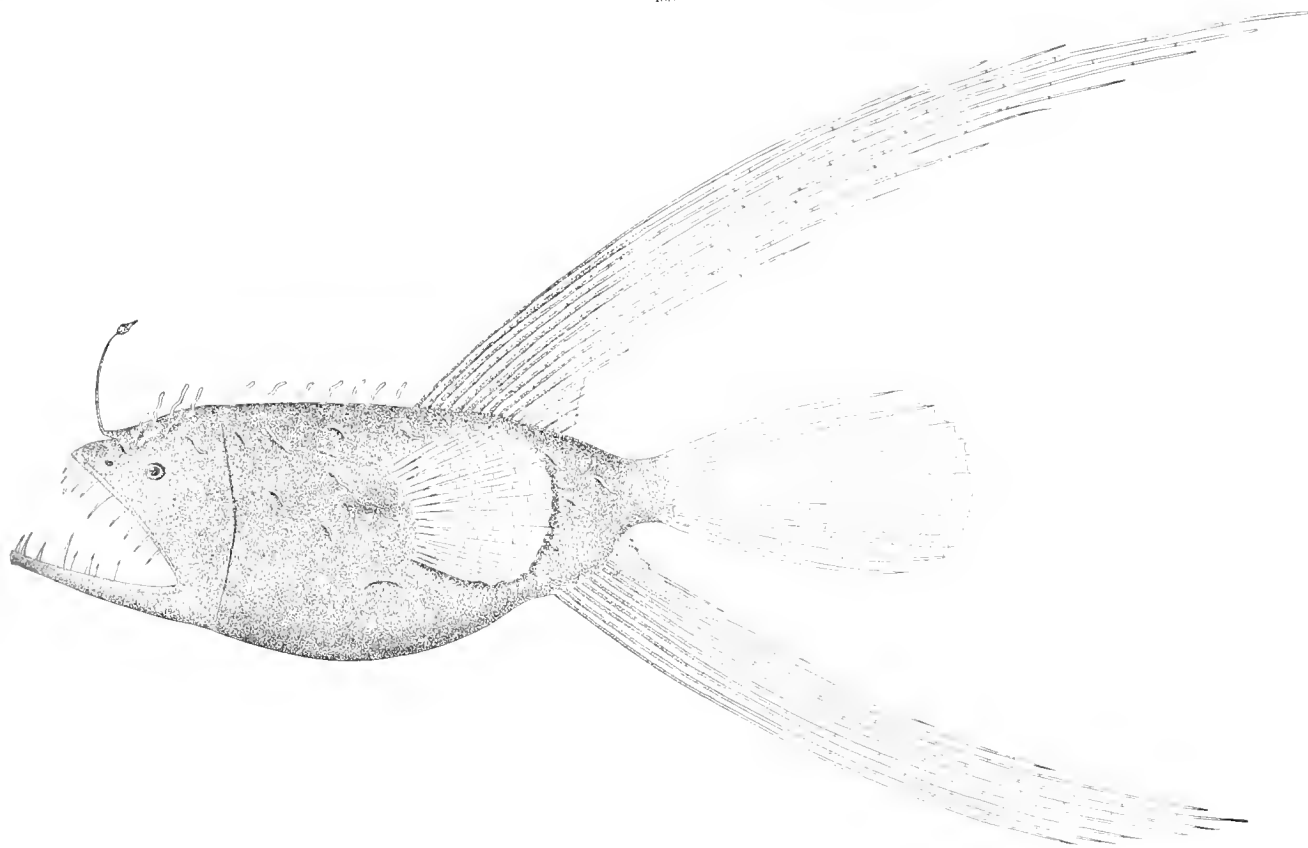
405. *CORYNOLOPHUS REINHARDTI*. (p. 494.)

406. *MELANOCETUS JOHNSONII*. (p. 494.)

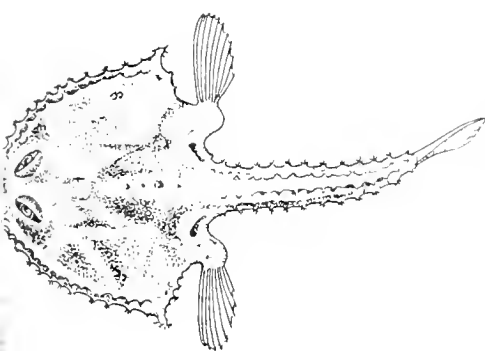
407. *LIOCETUS MURRAYI*. (p. 495.)



408



409



410



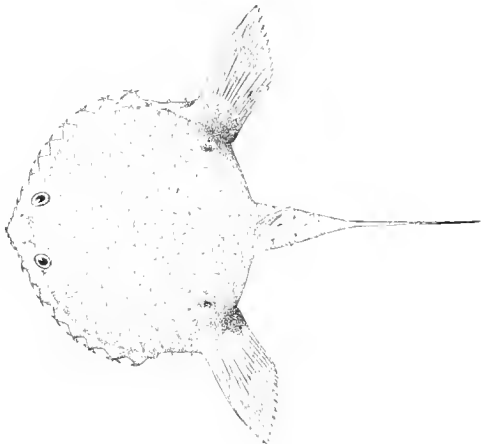
411

408. *LINOPHYRNE LUCIFER*. (p. 496.)
410. *HALIEUTAEA COCCINEA*. (p. 500.)

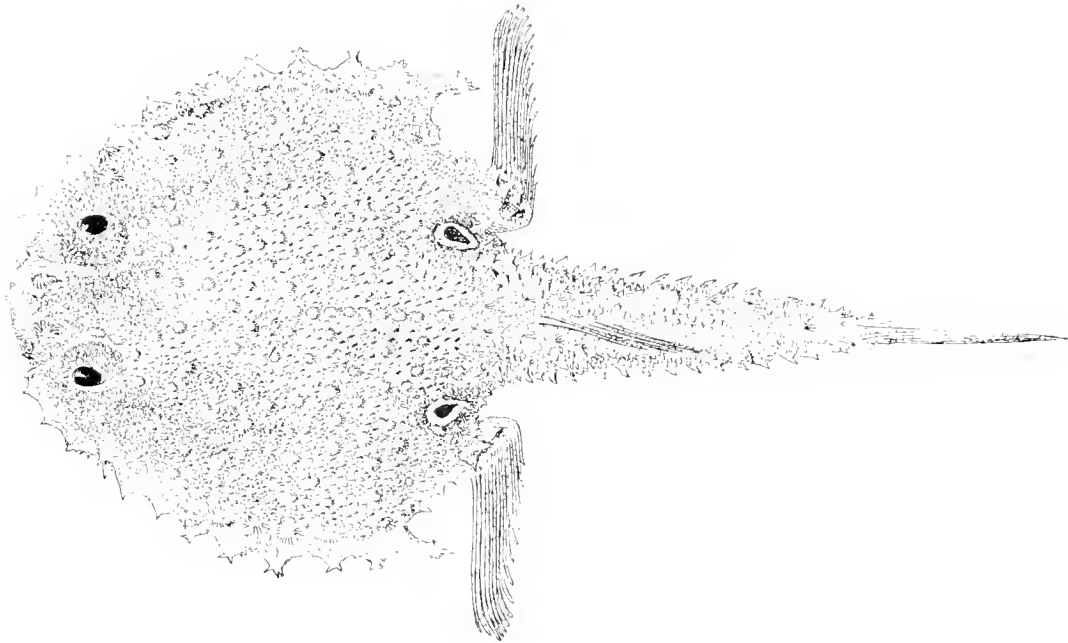
409. *CALLOPHYRNE SETOSUS*. (p. 496.)
411. *MALTHOPSIS LUTEUS*. (p. 529.)



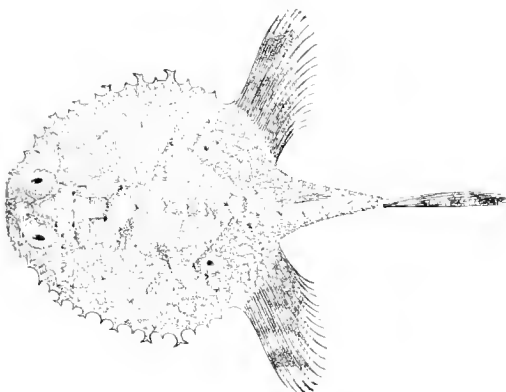
412a



412b



413

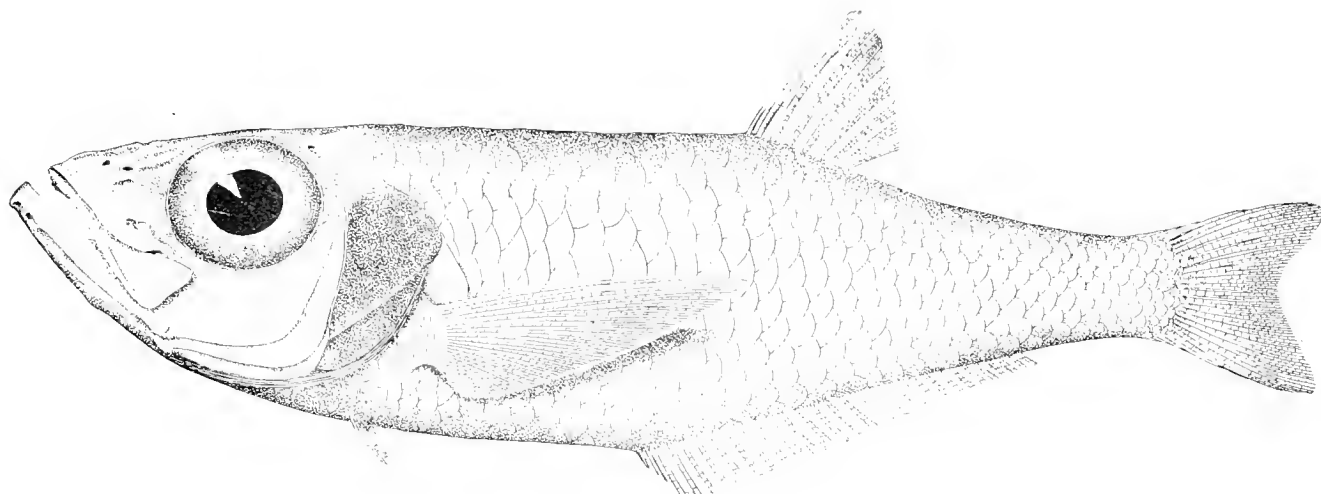


414a

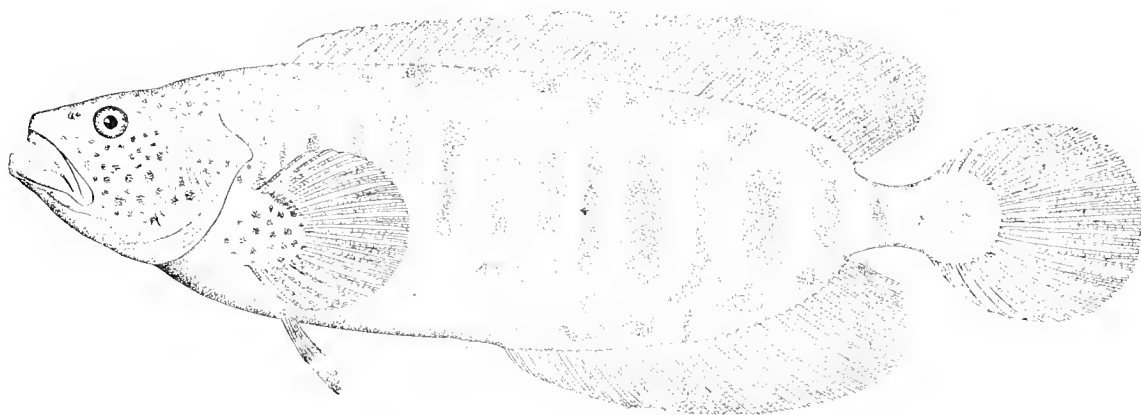


414b

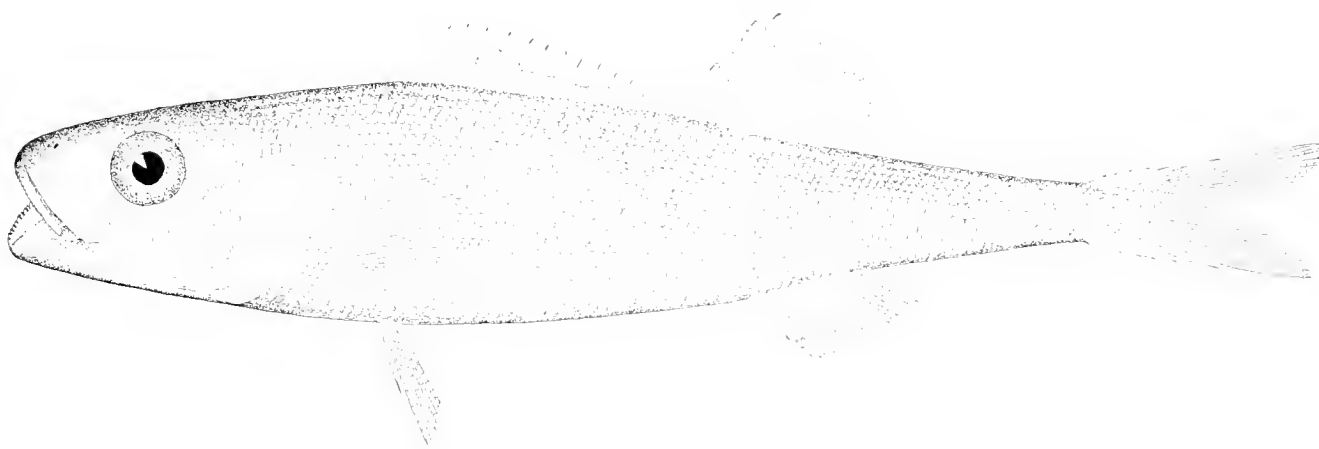
412a, b. HALIEUTELLA LAPPA. (p. 500.) 413. DIERASCHUS ATLANTICUS. (p. 501.)
414a, b. HALIEUTICHTHYS ACULEATUS. (p. 504.)



415



416



417

415. *BATHYCLUPEA ARGENTEA.* (p. 190.)

416. *SCHEDOPHILOPSIS SPINOSUS.* (p. 216.)

417. *TETRAGONURUS CUVIERI.* (p. 230.)







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